



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

MEMORANDUM

TO: Washington State Department of Ecology **DATE:** September 30, 2019

FROM: Logan Schumacher, LG, SoundEarth Strategies, Inc.
Thomas Cammarata, LG, LHG, SoundEarth Strategies, Inc.

SUBJECT: **Troy Laundry Seattle Site—PPCD Third Quarter 2019 Progress Report**

SoundEarth Strategies, Inc. (SoundEarth) has prepared this Progress Report to summarize activities completed during the Third Quarter of 2019 at the Troy Laundry Seattle Site (Site), Cleanup Site ID No. 11690 which encompasses the property located at 300 Boren Avenue North and 399 Fairview Avenue North in Seattle, Washington (Property). The location of the Property is shown on Figure 1. The work summarized below was conducted under Prospective Purchaser Consent Decree No. 19-2-07344-6 SEA (PPCD) between the Washington State Department of Ecology (Ecology) and Ponte Gadea Seattle LLC. This Progress Report is provided pursuant to Section IV.H. of the PPCD.

In addition, this Progress Report will update Ecology regarding further work completed and planned under Agreed Order No. DE 8996, as amended, (Agreed Order).

SITE ACTIVITIES—THIRD QUARTER 2019

The following sections summarize activities completed at the Site during the Third Quarter 2019.

Second Quarter 2019 Groundwater Monitoring Results

The Second Quarter 2019 semiannual groundwater monitoring event was completed between June 13 and 15, 2019. The groundwater monitoring event was conducted pursuant to Exhibit A (Scope of Work and Schedule) to the PPCD.¹ At the time the PPCD Second Quarter 2019 Progress Report was prepared, analytical results from the Second Quarter 2019 groundwater monitoring event had not yet been received, but are now available and reported in this Third Quarter 2019 Progress Report.

Groundwater elevation measurements from the Second Quarter 2019 groundwater monitoring event are shown in Table 1, and a groundwater elevation contour map of measurements collected on June 13, 2019, is shown on Figure 2. Laboratory analytical results are shown in Table 2 and on Figure 3, and a summary of trends in chlorinated volatile organic compounds (CVOCs) results is shown on Table 2A.

The following section summarizes activities completed at the Site during the Third Quarter 2019 under the Agreed Order.

¹ As set forth in Exhibit A to the PPCD, the groundwater monitoring results will be used to evaluate the effectiveness of the groundwater treatment program that has been implemented as part of the Interim Action Plan (SoundEarth 2013) for the Site, which was approved by Ecology on October 10, 2013.

2019 Supplemental Vapor Intrusion Assessment Report

The 2019 Supplemental Vapor Intrusion Assessment Report (SoundEarth 2019) summarizing the results of the 2019 supplemental indoor air vapor intrusion assessment was previously submitted to Ecology on May 21, 2019.

On July 8, 2019, Ecology issued an opinion letter on the Supplemental Vapor Intrusion Assessment Report, indicating that the primary and supplemental sampling events demonstrate compliance with Washington State Model Toxics Control Act indoor air cleanup levels, and that no further assessment of the indoor air quality is necessary.

DEVIATIONS FROM SAMPLING RESULTS NORMS

No deviations from the sampling results were noted for samples collected during the Second Quarter 2019 groundwater monitoring event, reported during the Third Quarter 2019.

DEVIATIONS FROM REQUIRED TASKS, SCOPE OF WORK, OR SCHEDULE

No deviations from the scope, schedule, or required tasks outlined in the PPCD were noted for the Third Quarter 2019.

DATA AND DESCRIPTION OF UNDERLYING SAMPLES COLLECTED

Laboratory analytical reports (raw data) from the Second Quarter 2019 groundwater monitoring event are included as Attachment A. Laboratory analytical results are summarized on Figure 4 and in Tables 2 and 2A. Samples from all compliance wells and select Site wells were submitted for analysis for CVOCs, including tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride by US Environmental Protection Agency (EPA) Method 8260C. Select groundwater samples were additionally analyzed for petroleum hydrocarbons and/or one or more of the following geochemical parameters:

- Gasoline-range petroleum hydrocarbons by Northwest Total Petroleum Hydrocarbon (NWTPH) Method NWTPH-Gx
- Diesel-range petroleum hydrocarbons and oil-range petroleum hydrocarbons by Method NWTPH-Dx
- Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8021B
- Sulfate and nitrate by EPA Method 300.0
- Alkalinity by EPA Method SM 2320B
- Ferrous iron by EPA Method SM3500-Fe B
- Methane, ethene, and ethane by EPA Method RSK 175
- Total organic carbon by EPA Method 415.1
- Volatile fatty acids by EPA Methods 300.0 and 300.0 Modified

PLANNED ACTIVITIES—FOURTH QUARTER 2019

The following section summarizes activities planned at the Site for the Fourth Quarter 2019 under the PPCD.

Fourth Quarter 2019 Groundwater Monitoring Event

The Fourth Quarter 2019 semiannual groundwater monitoring event is scheduled for December 2019 pursuant to Exhibit A (Scope of Work and Schedule) to the PPCD.

Data Tabulation and Review

Once data from the Fourth Quarter 2019 groundwater monitoring event are delivered and reviewed, updated groundwater data tables and figures will be prepared. Results of the Fourth Quarter 2019 groundwater monitoring event will be communicated to Ecology and presented in the First Quarter 2020 Annual Groundwater Monitoring Report.

The following sections summarize activities planned at the Site for the Fourth Quarter 2019 under the Agreed Order.

Remedial Investigation—ROW Well Installation

The installation of five additional groundwater monitoring wells (MW29 through MW33; Figure 2) in the Thomas Street, Harrison Street, and Boren Avenue North rights-of-way (ROWs) and on the south-adjacent property is currently scheduled to be completed in September 2019. The work includes soil sampling, well installation and development, installation of dedicated sampling pumps, and surveying of the well casing elevations. Ecology approved well locations MW29 through MW33 are shown on Figure 4.

Supplemental ROW Well Groundwater Sampling

Following installation of the five additional groundwater monitoring wells, a supplemental groundwater sampling event will be conducted at wells MW29 through MW33 to determine baseline groundwater conditions. Groundwater elevations will also be measured from all Site wells to aid in mapping groundwater flow in the vicinity of the Site. Results from the supplemental groundwater sampling will be included in the PPCD Fourth Quarter 2019 Progress Report. The timing for the supplemental groundwater sampling will be determined once all well installations have been completed.

Attachments: Figure 1, Property Location Map
Figure 2, Groundwater Contour Map with Rose Diagram (June 13, 2019)
Figure 3, Groundwater Analytical Results for CVOCs
Figure 4, Proposed Exploration Location Plan
Table 1, Summary of Groundwater Elevations
Table 2, Groundwater Analytical Results for CVOCs
Table 2A, Groundwater CVOCs Results Summary
A, Laboratory Analytical Reports
Friedman & Bruya, Inc. #906291
Friedman & Bruya, Inc. #906323
Friedman & Bruya, Inc. #906324
Fremont Analytical #1906179
SiREM Laboratory #S-5382

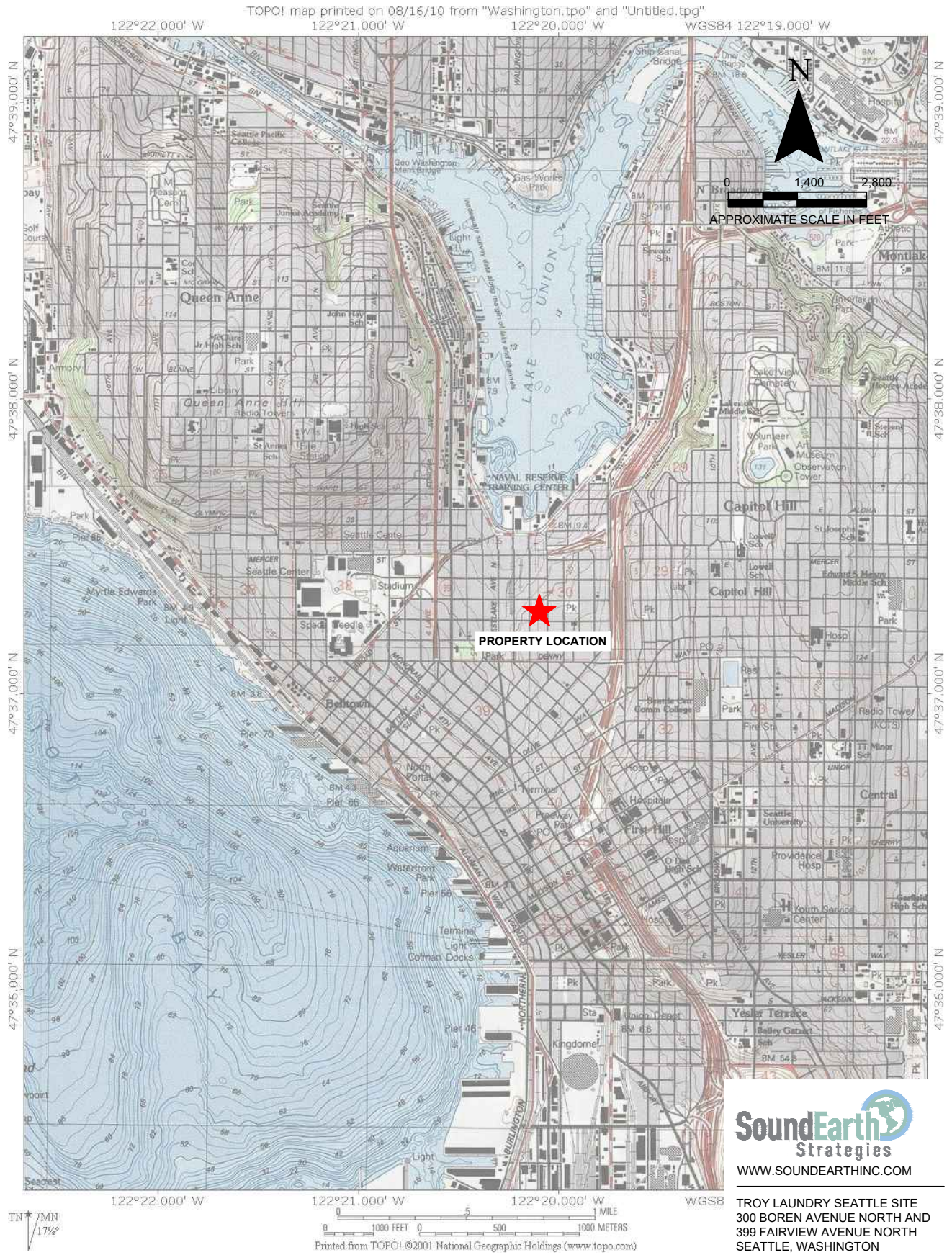
REFERENCES

SoundEarth Strategies, Inc. (SoundEarth). 2013. *Interim Action Plan, Troy Laundry Property, 307 Fairview Avenue North, Seattle, Washington*. August 21.

_____. 2019. *Supplemental Vapor Intrusion Assessment Report, Troy Laundry Property, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington*. May 21.

LDS/TJC:hsb/dnm

FIGURES



SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

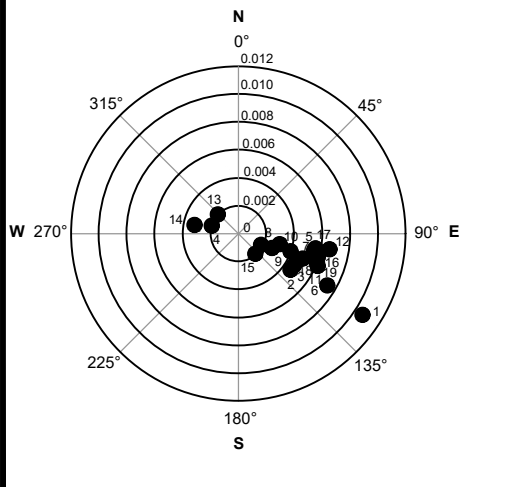
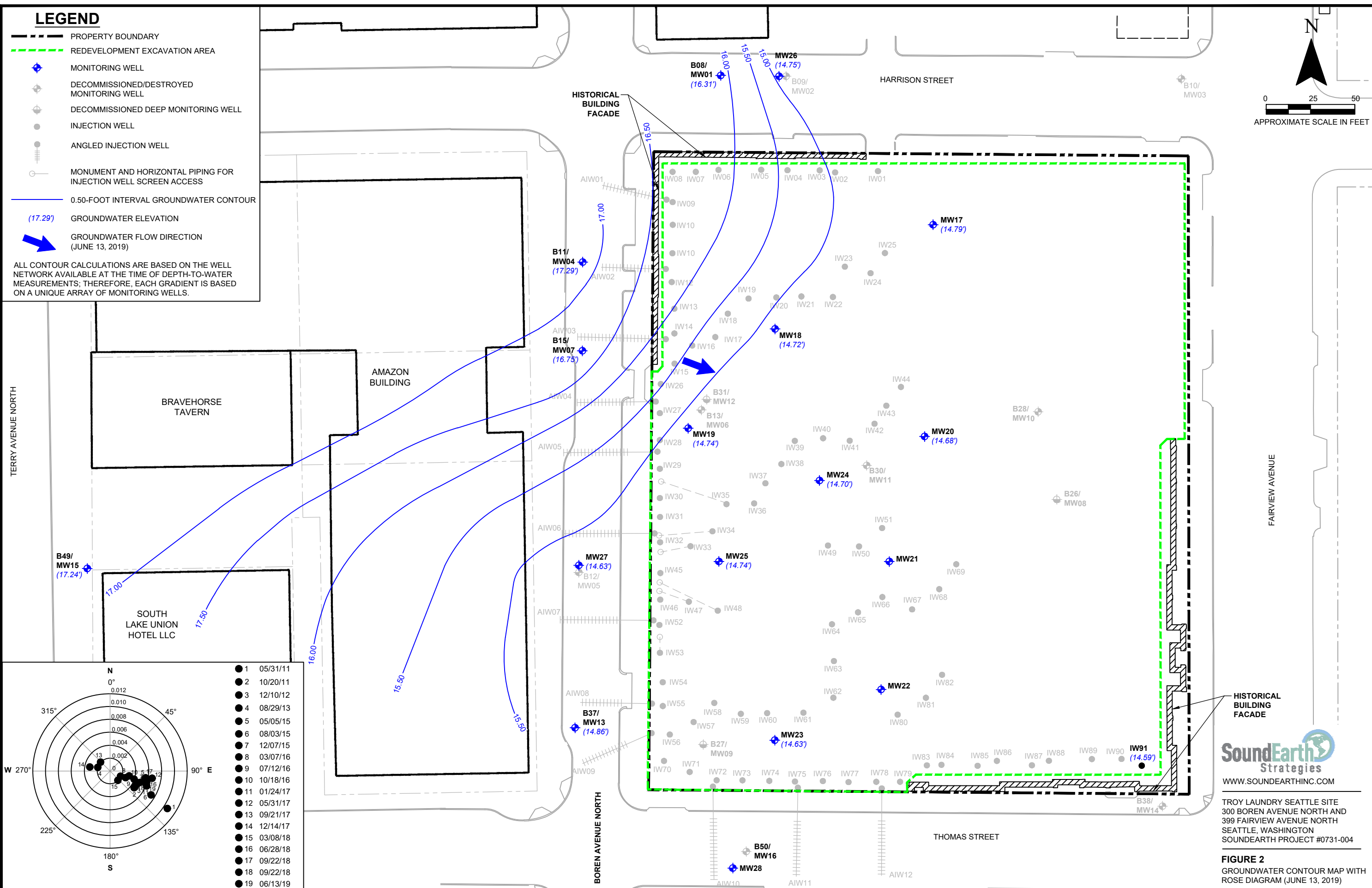
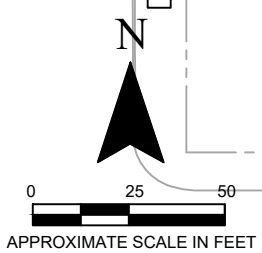
TROY LAUNDRY SEATTLE SITE
300 BOREN AVENUE NORTH AND
399 FAIRVIEW AVENUE NORTH
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004

FIGURE 1
PROPERTY LOCATION MAP

LEGEND

- PROPERTY BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- ◆ MONITORING WELL
- ◆ DECOMMISSIONED/DESTROYED MONITORING WELL
- ◆ DECOMMISSIONED DEEP MONITORING WELL
- INJECTION WELL
- ANGLED INJECTION WELL
- MONUMENT AND HORIZONTAL PIPING FOR INJECTION WELL SCREEN ACCESS
- 0.50-FOOT INTERVAL GROUNDWATER CONTOUR
- (17.29) GROUNDWATER ELEVATION
- ➔ GROUNDWATER FLOW DIRECTION (JUNE 13, 2019)

ALL CONTOUR CALCULATIONS ARE BASED ON THE WELL NETWORK AVAILABLE AT THE TIME OF DEPTH-TO-WATER MEASUREMENTS; THEREFORE, EACH GRADIENT IS BASED ON A UNIQUE ARRAY OF MONITORING WELLS.



SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

TROY LAUNDRY SEATTLE SITE
300 BOREN AVENUE NORTH AND
399 FAIRVIEW AVENUE NORTH
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004

FIGURE 2
GROUNDWATER CONTOUR MAP WITH
ROSE DIAGRAM (JUNE 13, 2019)

LEGEND

- PROPERTY BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- ◆ MONITORING WELL
- ◆ DECOMMISSIONED/DESTROYED MONITORING WELL
- ◆ DECOMMISSIONED DEEP MONITORING WELL
- INJECTION WELL
- ANGLED INJECTION WELL
- MONUMENT AND HORIZONTAL PIPING FOR INJECTION WELL SCREEN ACCESS

- DCE DICHLOROETHENE
- PCE TETRACHLOROETHENE
- TCE TRICHLOROETHENE
- MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT

< NOT DETECTED AT A CONCENTRATION EXCEEDING LABORATORY REPORTING LIMIT

RED DENOTES CONCENTRATIONS EXCEEDING THE MTCA METHOD CLEANUP LEVEL FOR GROUNDWATER

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MTCA Method A | | 5 | 5 | 160 | 16 | 0.2 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| IW04 | 06/30/18 | <1 | <1 | 5.3 | <1 | 0.68 |
| | 09/22/18 | <1 | <1 | <1 | <1 | <0.2 |
| | 12/15/18 | <1 | <1 | 1.9 | <1 | 1.6 |
| | 06/15/19 | <1 | <1 | 1.7 | <1 | 1.0 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| IW06 | 03/10/18 | <1 | <1 | 1.6 | <1 | <0.2 |
| | 06/30/18 | <1 | <1 | <1 | <1 | <0.2 |
| | 12/15/18 | 1.0 | <1 | <1 | <1 | <0.2 |
| | 06/15/19 | 1.7 | <1 | <1 | <1 | <0.2 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW04 | 06/29/18 | <1 | 9.4 | <1 | <1 | <0.2 |
| | 09/20/18 | <1 | 9.4 | <1 | <1 | <0.2 |
| | 12/14/18 | <1 | 10 | <1 | <1 | <0.2 |
| | 06/14/19 | <1 | 11 | <1 | <1 | <0.2 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW07 | 06/29/18 | 3.3 | 7.3 | <1 | <1 | <0.2 |
| | 09/20/18 | 2.8 | 6.0 | <1 | <1 | <0.2 |
| | 12/14/18 | 3.3 | 6.7 | <1 | <1 | <0.2 |
| | 06/14/19 | 3.9 | 5.9 | <1 | <1 | <0.2 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW19 | 03/10/18 | <1 | <1 | 12 | <1 | 0.78 |
| | 06/30/18 | <1 | <1 | 12 | <1 | 0.96 |
| | 09/22/18 | <1 | <1 | 16 | <1 | 0.86 |
| | 06/15/19 | <1 | <1 | 27 | <1 | 0.79 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW25 | 06/30/18 | <1 | <1 | 31 | <1 | 0.52 |
| | 09/22/18 | <1 | <1 | 37 | <1 | 0.46 |
| | 12/15/18 | <1 | <1 | 40 | <1 | 0.60 |
| | 06/15/19 | <1 | <1 | 45 | <1 | 0.54 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW27 | 06/28/18 | <1 | 37 | 3.4 | <1 | <0.2 |
| | 09/20/18 | <1 | 21 | 3.7 | <1 | <0.2 |
| | 12/14/18 | <1 | 17 | 4.3 | <1 | <0.2 |
| | 06/14/19 | <1 | 14 | 2.3 | <1 | <0.2 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| IW61 | 06/30/18 | 16 | 2.5 | 67 | <1 | 1.7 |
| | 09/22/18 | 13 | 2.1 | 63 | <1 | 1.8 |
| | 12/15/18 | 15 | 2.1 | 58 | <1 | 2.0 |
| | 06/15/19 | 13 | 2.4 | 71 | <1 | 2.9 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW13 | 06/29/18 | 4.4 | <1 | <1 | <1 | <0.2 |
| | 09/20/18 | 6.5 | 1.3 | <1 | <1 | <0.2 |
| | 12/14/18 | 7.8 | 1.4 | <1 | <1 | <0.2 |
| | 06/14/19 | 7.0 | 1.1 | <1 | <1 | <0.2 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|---------------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW16 | 09/22/17 | 5.4 | 5.2 | 78 | <1 | 0.40 |
| | 12/29/17 | 7.2 | 6.4 | 150 | <1 | 0.89 |
| | 03/09/18 | 7.3 | 5.5 | 80 | <1 | 0.35 |
| | Well Destroyed 2018 | | | | | |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW28 | 06/13/19 | 9.0 | 5.7 | 80 | <1 | 0.35 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW01 | 06/28/18 | <1 | 1.1 | <1 | <1 | <0.2 |
| | 09/20/18 | <1 | <1 | <1 | <1 | <0.2 |
| | 12/14/18 | <1 | 1.1 | <1 | <1 | <0.2 |
| | 06/14/19 | <1 | <1 | <1 | <1 | <0.2 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW26 | 06/28/18 | <1 | 18 | <1 | <1 | <0.2 |
| | 09/20/18 | <1 | 18 | <1 | <1 | <0.2 |
| | 12/14/18 | <1 | 20 | <1 | <1 | <0.2 |
| | 06/14/19 | <1 | 20 | <1 | <1 | <0.2 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW17 | 06/30/18 | <1 | 2.8 | 2.2 | <1 | <0.2 |
| | 09/22/18 | <1 | 2.7 | 2.0 | <1 | <0.2 |
| | 12/15/18 | <1 | 2.9 | 2.2 | <1 | <0.2 |
| | 06/15/19 | <1 | 3.4 | 2.2 | <1 | <0.2 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW18 | 06/30/18 | <1 | <1 | 27 | <1 | 0.43 |
| | 09/22/18 | <1 | <1 | 21 | <1 | 0.42 |
| | 12/15/18 | <1 | <1 | 24 | <1 | 0.49 |
| | 06/15/19 | <1 | <1 | 28 | <1 | 0.44 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW24 | 06/30/18 | 1.5 | 1.9 | 41 | <1 | 2.1 |
| | 09/22/18 | <1 | <1 | 35 | <1 | 0.37 |
| | 12/15/18 | <1 | <1 | 43 | <1 | 0.51 |
| | 06/15/19 | <1 | <1 | 84 | <1 | 1.0 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW20 | 06/30/18 | <1 | <1 | 7 | <1 | <0.2 |
| | 09/22/18 | <1 | <1 | 5.3 | <1 | <0.2 |
| | 12/15/18 | <1 | <1 | 4.4 | <1 | <0.2 |
| | 06/15/19 | <1 | <1 | 3.8 | <1 | <0.2 |

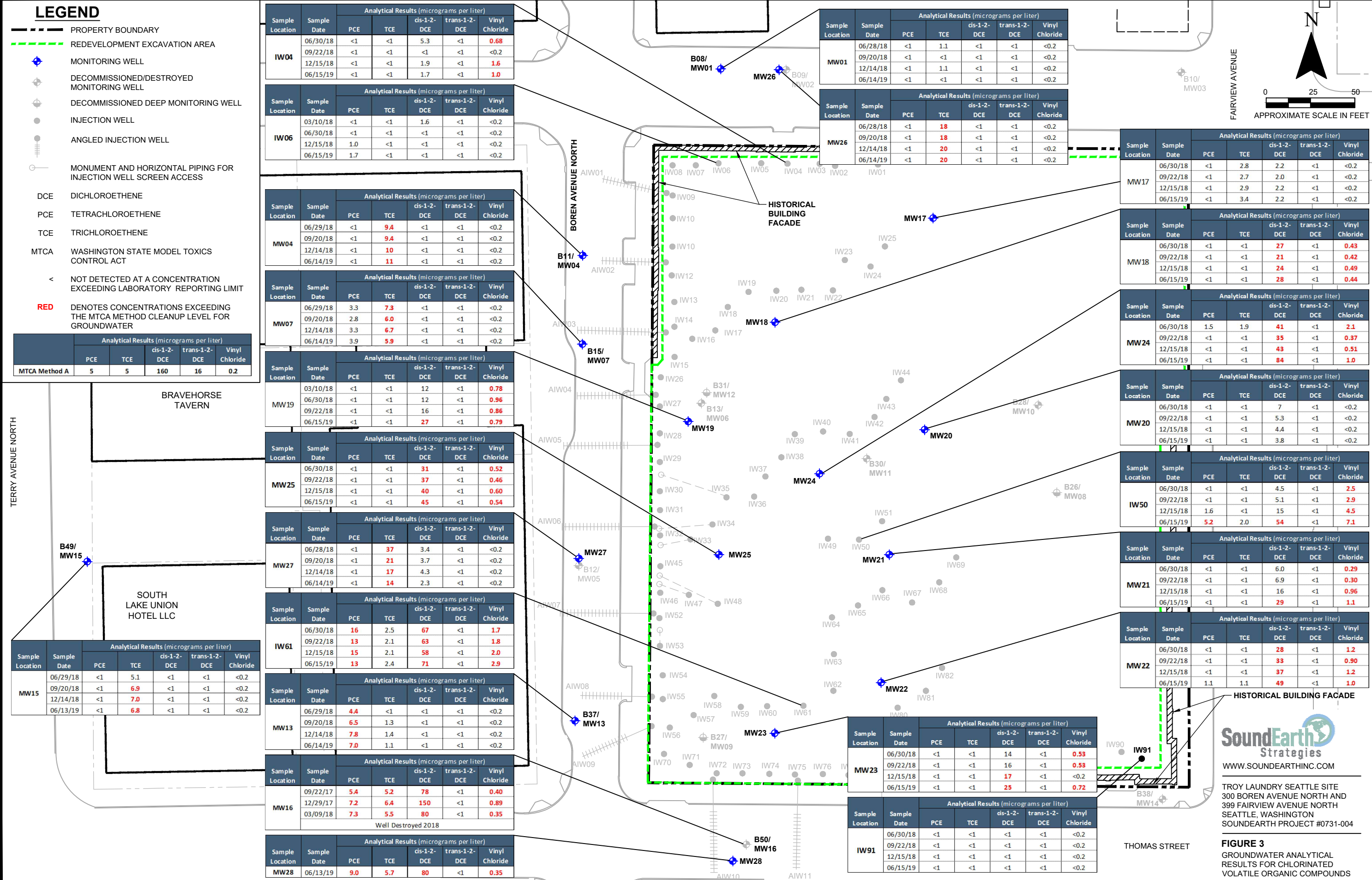
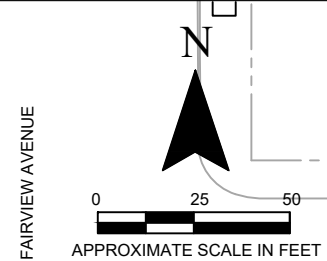
| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| IW50 | 06/30/18 | <1 | <1 | 4.5 | <1 | 2.5 |
| | 09/22/18 | <1 | <1 | 5.1 | <1 | 2.9 |
| | 12/15/18 | 1.6 | <1 | 15 | <1 | 4.5 |
| | 06/15/19 | 5.2 | 2.0 | 54 | <1 | 7.1 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW21 | 06/30/18 | <1 | <1 | 6.0 | <1 | 0.29 |
| | 09/22/18 | <1 | <1 | 6.9 | <1 | 0.30 |
| | 12/15/18 | <1 | <1 | 16 | <1 | 0.96 |
| | 06/15/19 | <1 | <1 | 29 | <1 | 1.1 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW22 | 06/30/18 | <1 | <1 | 28 | <1 | 1.2 |
| | 09/22/18 | <1 | <1 | 33 | <1 | 0.90 |
| | 12/15/18 | <1 | <1 | 37 | <1 | 1.2 |
| | 06/15/19 | 1.1 | 1.1 | 49 | <1 | 1.0 |

| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| MW23 | 06/30/18 | <1 | <1 | 14 | <1 | 0.53 |
| | 09/22/18 | <1 | <1 | 16 | <1 | 0.53 |
| | 12/15/18 | <1 | <1 | 17 | <1 | <0.2 |
| | 06/15/19 | <1 | <1 | 25 | <1 | 0.72 |

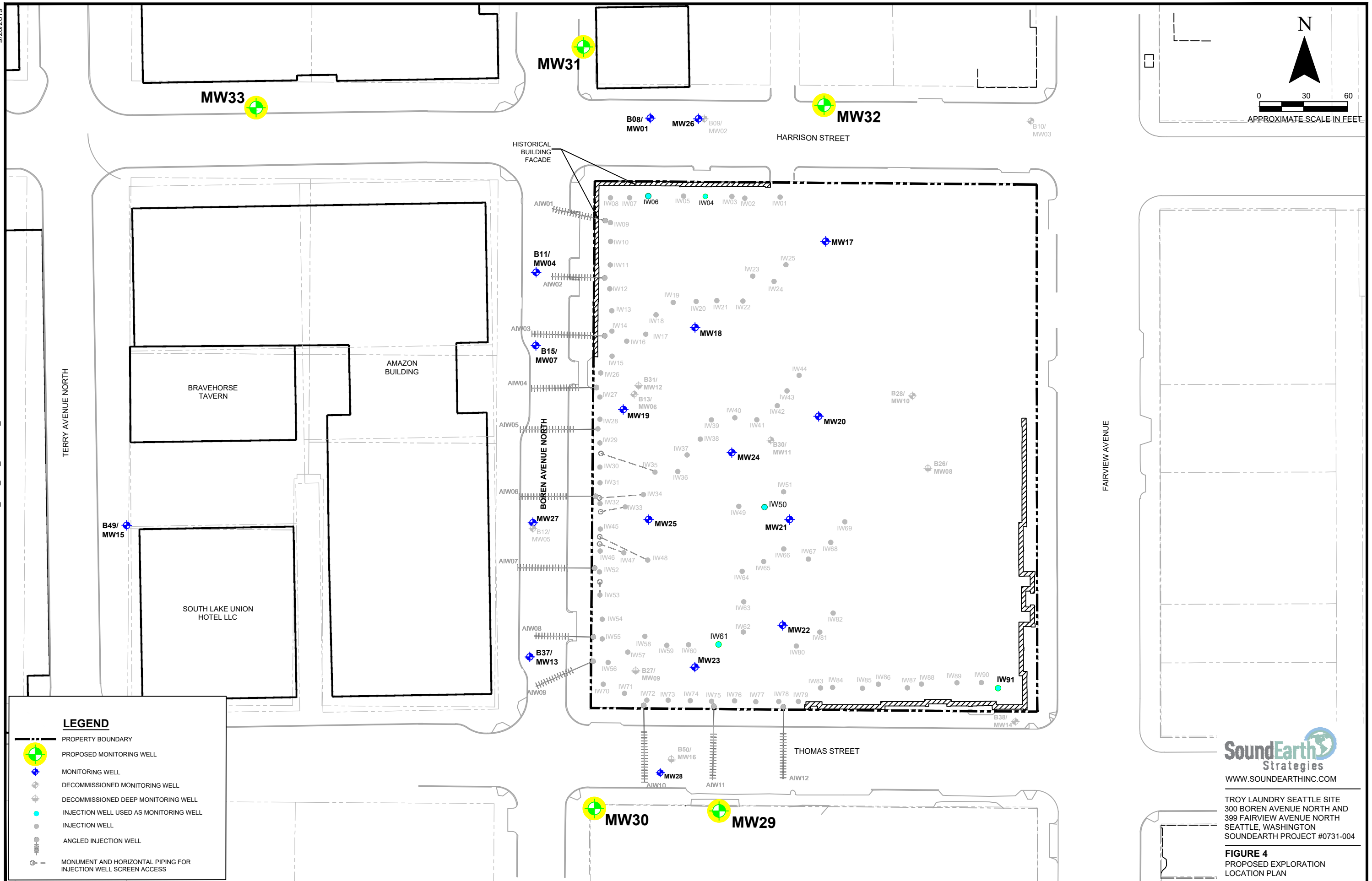
| Analytical Results (micrograms per liter) | | | | | | |
|---|-------------|-----|-----|-------------|---------------|----------------|
| Sample Location | Sample Date | PCE | TCE | dis-1-2-DCE | trans-1-2-DCE | Vinyl Chloride |
| IW91 | 06/30/18 | <1 | <1 | <1 | <1 | <0.2 |
| | 09/22/18 | <1 | <1 | <1 | <1 | <0.2 |
| | 12/15/18 | <1 | <1 | <1 | <1 | <0.2 |
| 06/15/19 | <1 | <1 | <1 | <1 | <0.2 | |












SoundEarth Strategies
 WWW.SOUNDEARTHINC.COM

TROY LAUNDRY SEATTLE SITE
 300 BOREN AVENUE NORTH AND
 399 FAIRVIEW AVENUE NORTH
 SEATTLE, WASHINGTON
 SOUNDEARTH PROJECT #0731-004

FIGURE 3
 GROUNDWATER ANALYTICAL RESULTS FOR CHLORINATED VOLATILE ORGANIC COMPOUNDS



LEGEND

-  PROPERTY BOUNDARY
-  PROPOSED MONITORING WELL
-  MONITORING WELL
-  DECOMMISSIONED MONITORING WELL
-  DECOMMISSIONED DEEP MONITORING WELL
-  INJECTION WELL USED AS MONITORING WELL
-  INJECTION WELL
-  ANGLED INJECTION WELL
-  MONUMENT AND HORIZONTAL PIPING FOR INJECTION WELL SCREEN ACCESS



WWW.SOUNDEARTHINC.COM

TROY LAUNDRY SEATTLE SITE
 300 BOREN AVENUE NORTH AND
 399 FAIRVIEW AVENUE NORTH
 SEATTLE, WASHINGTON
 SOUNDEARTH PROJECT #0731-004

FIGURE 4
 PROPOSED EXPLORATION
 LOCATION PLAN

TABLES



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Well | TOC Elevation ⁽¹⁾ (feet) | Depth to Top of Well Screen (feet approximate) | Depth to Bottom of Well Screen (feet approximate) | Top of Well Screen Elevation (feet NAVD88 approximate) | Bottom of Well Screen Elevation (feet NAVD88 approximate) | Date | Depth to Groundwater (feet below TOC) | Groundwater Elevation (feet NAVD88) |
|------------------------------|-------------------------------------|--|---|--|---|----------|---------------------------------------|-------------------------------------|
| Troy Laundry Property | | | | | | | | |
| MW06 | 74.78 | 60 | 75 | 15 | 0 | 05/31/11 | 58.70 | 16.08 |
| | | | | | | 10/20/11 | 58.91 | 15.87 |
| | | | | | | 12/13/12 | 58.71 | 16.07 |
| | | | | | | 08/29/13 | 60.30 | 14.48 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW08 | 92.88 | 105 | 110 | -12 | -17 | 10/20/11 | 77.18 | 15.70 |
| | | | | | | 08/29/13 | 78.10 | 14.78 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW09 | 92.92 | 105 | 110 | -12 | -17 | 10/20/11 | 77.24 | 15.68 |
| | | | | | | 08/29/13 | 78.51 | 14.41 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW10 | 92.73 | 75 | 90 | 18 | 3 | 10/20/11 | 77.14 | 15.59 |
| | | | | | | 12/13/12 | 77.01 | 15.72 |
| | | | | | | 08/29/13 | 78.28 | 14.45 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW11 | 88.23 | 68 | 83 | 20 | 5 | 10/20/11 | 72.43 | 15.80 |
| | | | | | | 12/13/12 | 72.29 | 15.94 |
| | | | | | | 08/29/13 | 73.78 | 14.45 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW12 | 74.44 | 95 | 100 | -21 | -26 | 10/20/11 | 58.71 | 15.73 |
| | | | | | | 08/29/13 | 59.99 | 14.45 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW17 | 35.72 | 22 | 37 | 14 | -1 | 05/05/15 | 25.26 | 10.46 |
| | | | | | | 08/03/15 | 24.82 | 10.90 |
| | | | | | | 12/07/15 | 25.49 | 10.23 |
| | | | | | | 03/07/16 | 24.98 | 10.74 |
| | | | | | | 07/12/16 | 24.61 | 11.11 |
| | | | | | | 10/18/16 | 23.14 | 12.58 |
| | | | | | | 01/24/17 | 20.84 | 14.88 |
| | | | | | | 05/31/17 | 22.75 | 12.97 |
| | | | | | | 09/21/17 | 25.73 | 9.99 |
| | | | | | | 12/14/17 | 25.14 | 10.58 |
| | | | | | | 03/08/18 | 23.04 | 12.68 |
| | | | | | | 06/28/18 | 22.00 | 13.72 |
| | | | | | | 09/19/18 | 21.64 | 14.08 |
| 12/13/18 | 21.42 | 14.30 | | | | | | |
| 06/13/19 | 20.93 | 14.79 | | | | | | |



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Well | TOC Elevation ⁽¹⁾ (feet) | Depth to Top of Well Screen (feet approximate) | Depth to Bottom of Well Screen (feet approximate) | Top of Well Screen Elevation (feet NAVD88 approximate) | Bottom of Well Screen Elevation (feet NAVD88 approximate) | Date | Depth to Groundwater (feet below TOC) | Groundwater Elevation (feet NAVD88) |
|----------|-------------------------------------|--|---|--|---|----------|---------------------------------------|-------------------------------------|
| MW18 | 35.34 | 35 | 55 | 0 | -20 | 05/05/15 | 24.92 | 10.42 |
| | | | | | | 08/03/15 | 24.49 | 10.85 |
| | | | | | | 12/07/15 | 25.21 | 10.13 |
| | | | | | | 03/07/16 | 24.64 | 10.70 |
| | | | | | | 07/12/16 | 24.23 | 11.11 |
| | | | | | | 10/18/16 | 22.81 | 12.53 |
| | | | | | | 01/24/17 | 20.98 | 14.36 |
| | | | | | | 05/31/17 | 22.49 | 12.85 |
| | | | | | | 09/21/17 | 25.36 | 9.98 |
| | | | | | | 12/14/17 | 24.70 | 10.64 |
| | | | | | | 03/08/18 | 22.60 | 12.74 |
| | | | | | | 06/28/18 | 21.70 | 13.64 |
| | | | | | | 09/19/18 | 21.34 | 14.00 |
| 12/13/18 | 21.12 | 14.22 | | | | | | |
| 06/13/19 | 20.62 | 14.72 | | | | | | |
| MW19 | 37.69 | 35 | 55 | 3 | -17 | 05/05/15 | 27.24 | 10.45 |
| | | | | | | 08/03/15 | 26.82 | 10.87 |
| | | | | | | 12/07/15 | 27.51 | 10.18 |
| | | | | | | 03/07/16 | 26.97 | 10.72 |
| | | | | | | 07/12/16 | 26.57 | 11.12 |
| | | | | | | 10/18/16 | 25.12 | 12.57 |
| | | | | | | 01/24/17 | 22.97 | 14.72 |
| | | | | | | 05/31/17 | 24.74 | 12.95 |
| | | | | | | 09/21/17 | 27.60 | 10.09 |
| | | | | | | 12/14/17 | 26.97 | 10.72 |
| | | | | | | 03/08/18 | 24.89 | 12.80 |
| | | | | | | 06/28/18 | 24.00 | 13.69 |
| | | | | | | 09/19/18 | 23.65 | 14.04 |
| 12/13/18 | 25.41 | 12.28 | | | | | | |
| 06/13/19 | 22.95 | 14.74 | | | | | | |
| MW20 | 35.63 | 35 | 55 | 1 | -19 | 05/05/15 | 25.24 | 10.39 |
| | | | | | | 08/03/15 | 24.44 | 11.19 |
| | | | | | | 12/07/15 | 25.50 | 10.13 |
| | | | | | | 03/07/16 | 24.94 | 10.69 |
| | | | | | | 07/12/16 | 24.62 | 11.01 |
| | | | | | | 10/18/16 | 23.13 | 12.50 |
| | | | | | | 01/24/17 | 21.32 | 14.31 |
| | | | | | | 05/31/17 | 22.70 | 12.93 |
| | | | | | | 09/21/17 | 25.53 | 10.10 |
| | | | | | | 12/14/17 | 24.91 | 10.72 |
| | | | | | | 03/08/18 | 22.89 | 12.74 |
| | | | | | | 06/28/18 | 22.01 | 13.62 |
| | | | | | | 09/19/18 | 21.67 | 13.96 |
| 12/13/18 | 21.43 | 14.20 | | | | | | |
| 06/13/19 | 20.95 | 14.68 | | | | | | |



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Well | TOC Elevation ⁽¹⁾ (feet) | Depth to Top of Well Screen (feet approximate) | Depth to Bottom of Well Screen (feet approximate) | Top of Well Screen Elevation (feet NAVD88 approximate) | Bottom of Well Screen Elevation (feet NAVD88 approximate) | Date | Depth to Groundwater (feet below TOC) | Groundwater Elevation (feet NAVD88) |
|----------|-------------------------------------|--|---|--|---|----------|---------------------------------------|-------------------------------------|
| MW21 | 35.58 | 35 | 55 | 1 | -19 | 05/05/15 | 25.21 | 10.37 |
| | | | | | | 08/03/15 | 24.82 | 10.76 |
| | | | | | | 12/07/15 | 25.49 | 10.09 |
| | | | | | | 03/07/16 | 24.90 | 10.68 |
| | | | | | | 07/12/16 | 24.56 | 11.02 |
| | | | | | | 10/18/16 | 23.00 | 12.58 |
| | | | | | | 01/24/17 | 21.54 | 14.04 |
| | | | | | | 05/31/17 | 23.37 | 12.21 |
| | | | | | | 09/21/17 | 25.96 | 9.62 |
| | | | | | | 12/14/17 | 25.20 | 10.38 |
| | | | | | | 03/08/18 | 24.10 | 11.48 |
| | | | | | | 06/28/18 | 22.89 | 12.69 |
| | | | | | | 09/19/18 | INACCESSIBLE | |
| | | | | | | 12/13/18 | 22.59 | 12.99 |
| 06/13/19 | 23.70 | 11.88 | | | | | | |
| MW22 | 35.47 | 35 | 55 | 0 | -20 | 05/05/15 | 25.14 | 10.33 |
| | | | | | | 08/03/15 | 24.75 | 10.72 |
| | | | | | | 12/07/15 | 25.41 | 10.06 |
| | | | | | | 03/07/16 | 24.86 | 10.61 |
| | | | | | | 07/12/16 | 24.52 | 10.95 |
| | | | | | | 10/18/16 | 23.05 | 12.42 |
| | | | | | | 01/24/17 | 21.68 | 13.79 |
| | | | | | | 05/31/17 | 23.45 | 12.02 |
| | | | | | | 09/21/17 | 26.20 | 9.27 |
| | | | | | | 12/14/17 | 25.60 | 9.87 |
| | | | | | | 03/08/18 | 23.65 | 11.82 |
| | | | | | | 06/28/18 | 23.30 | 12.17 |
| | | | | | | 09/19/18 | INACCESSIBLE | |
| | | | | | | 12/13/18 | 21.62 | 13.85 |
| 06/13/19 | -- | -- | | | | | | |
| MW23 | 35.43 | 36 | 56 | -1 | -21 | 05/05/15 | 25.08 | 10.35 |
| | | | | | | 08/03/15 | 24.72 | 10.71 |
| | | | | | | 12/07/15 | 25.34 | 10.09 |
| | | | | | | 03/07/16 | 24.77 | 10.66 |
| | | | | | | 07/12/16 | 24.54 | 10.89 |
| | | | | | | 10/18/16 | 22.98 | 12.45 |
| | | | | | | 01/24/17 | 21.06 | 14.37 |
| | | | | | | 05/31/17 | 22.41 | 13.02 |
| | | | | | | 09/21/17 | 25.11 | 10.32 |
| | | | | | | 12/14/17 | 24.65 | 10.78 |
| | | | | | | 03/08/18 | 22.69 | 12.74 |
| | | | | | | 06/28/18 | 21.03 | 14.40 |
| | | | | | | 09/19/18 | 21.50 | 13.93 |
| | | | | | | 12/13/18 | 21.22 | 14.21 |
| 06/13/19 | 20.80 | 14.63 | | | | | | |



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Well | TOC Elevation ⁽¹⁾ (feet) | Depth to Top of Well Screen (feet approximate) | Depth to Bottom of Well Screen (feet approximate) | Top of Well Screen Elevation (feet NAVD88 approximate) | Bottom of Well Screen Elevation (feet NAVD88 approximate) | Date | Depth to Groundwater (feet below TOC) | Groundwater Elevation (feet NAVD88) |
|----------|-------------------------------------|--|---|--|---|----------|---------------------------------------|-------------------------------------|
| MW24 | 34.88 | 35 | 55 | 0 | -20 | 05/05/15 | 24.47 | 10.41 |
| | | | | | | 08/03/15 | 24.06 | 10.82 |
| | | | | | | 12/07/15 | 24.72 | 10.16 |
| | | | | | | 03/07/16 | 24.12 | 10.76 |
| | | | | | | 07/12/16 | 23.76 | 11.12 |
| | | | | | | 10/18/16 | 22.19 | 12.69 |
| | | | | | | 01/24/17 | 19.95 | 14.93 |
| | | | | | | 05/31/17 | 23.29 | 11.59 |
| | | | | | | 09/21/17 | INACCESSIBLE | |
| | | | | | | 12/14/17 | 24.22 | 10.66 |
| | | | | | | 03/08/18 | 22.10 | 12.78 |
| | | | | | | 06/28/18 | 21.98 | 12.90 |
| | | | | | | 09/19/18 | 20.81 | 14.07 |
| | | | | | | 12/13/18 | 20.65 | 14.23 |
| 06/13/19 | 20.18 | 14.70 | | | | | | |
| MW25 | 41.38 | 35.5 | 55.5 | 6 | -14 | 05/05/15 | 30.85 | 10.53 |
| | | | | | | 08/03/15 | 30.60 | 10.78 |
| | | | | | | 12/07/15 | 31.30 | 10.08 |
| | | | | | | 03/07/16 | 30.71 | 10.67 |
| | | | | | | 07/12/16 | 30.44 | 10.94 |
| | | | | | | 10/18/16 | 28.95 | 12.43 |
| | | | | | | 01/24/17 | 27.07 | 14.31 |
| | | | | | | 05/31/17 | 28.24 | 13.14 |
| | | | | | | 09/21/17 | 31.09 | 10.29 |
| | | | | | | 12/14/17 | 30.52 | 10.86 |
| | | | | | | 03/08/18 | 28.54 | 12.84 |
| | | | | | | 06/28/18 | 27.69 | 13.69 |
| | | | | | | 09/19/18 | 27.32 | 14.06 |
| | | | | | | 12/13/18 | 27.12 | 14.26 |
| 06/13/19 | 26.64 | 14.74 | | | | | | |
| IW91 | 35.82 | 20 | 55 | 16 | -19 | 05/05/15 | 25.56 | 10.26 |
| | | | | | | 08/03/15 | 25.19 | 10.63 |
| | | | | | | 12/07/15 | 25.84 | 9.98 |
| | | | | | | 03/07/16 | 25.24 | 10.58 |
| | | | | | | 07/12/16 | 24.90 | 10.92 |
| | | | | | | 10/18/16 | 23.41 | 12.41 |
| | | | | | | 01/24/17 | 21.61 | 14.21 |
| | | | | | | 05/31/17 | 22.79 | 13.03 |
| | | | | | | 09/21/17 | 25.42 | 10.40 |
| | | | | | | 12/14/17 | 24.96 | 10.86 |
| | | | | | | 03/08/18 | 23.08 | 12.74 |
| | | | | | | 06/28/18 | 22.30 | 13.52 |
| | | | | | | 09/19/18 | 21.95 | 13.87 |
| | | | | | | 12/13/18 | 21.69 | 14.13 |
| 06/13/19 | 21.23 | 14.59 | | | | | | |



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Well | TOC Elevation ⁽¹⁾ (feet) | Depth to Top of Well Screen (feet approximate) | Depth to Bottom of Well Screen (feet approximate) | Top of Well Screen Elevation (feet NAVD88 approximate) | Bottom of Well Screen Elevation (feet NAVD88 approximate) | Date | Depth to Groundwater (feet below TOC) | Groundwater Elevation (feet NAVD88) |
|---------------------------|-------------------------------------|--|---|--|---|----------|---------------------------------------|-------------------------------------|
| Boren Avenue North | | | | | | | | |
| MW04 | 70.69 | 50 | 65 | 21 | 6 | 05/27/11 | 52.22 | 18.47 |
| | | | | | | 10/20/11 | 52.82 | 17.87 |
| | | | | | | 12/10/12 | 52.88 | 17.81 |
| | | | | | | 08/29/13 | 57.25 | 13.44 |
| | | | | | | 05/05/15 | 58.22 | 12.60 |
| | 70.82 | | | | | 08/03/15 | 56.87 | 13.95 |
| | | | | | | 12/07/15 | 58.82 | 12.00 |
| | | | | | | 03/07/16 | 59.25 | 11.57 |
| | | | | | | 07/12/16 | 58.49 | 12.33 |
| | | | | | | 10/18/16 | 57.02 | 13.80 |
| | | | | | | 01/24/17 | 54.06 | 16.76 |
| | | | | | | 05/31/17 | 55.59 | 15.23 |
| | | | | | | 09/21/17 | 62.08 | 8.74 |
| | | | | | | 12/14/17 | 62.03 | 8.79 |
| | | | | | | 03/08/18 | 57.70 | 13.12 |
| MW05 | 84.04 | 65 | 80 | 19 | 4 | 05/27/11 | 67.40 | 16.64 |
| | | | | | | 10/20/11 | 67.91 | 16.13 |
| | | | | | | 12/10/12 | 68.54 | 15.50 |
| | | | | | | 08/29/13 | 69.72 | 14.32 |
| | | | | | | 05/05/15 | INACCESSIBLE | |
| | | | | | | 08/03/15 | INACCESSIBLE | |
| DECOMMISSIONED 2015 | | | | | | | | |
| MW07 | 74.55 | 55 | 70 | 20 | 5 | 05/31/11 | 56.33 | 18.22 |
| | | | | | | 10/20/11 | 56.87 | 17.68 |
| | | | | | | 12/10/12 | 56.96 | 17.59 |
| | | | | | | 08/29/13 | 60.95 | 13.60 |
| | | | | | | 05/05/15 | 62.69 | 11.99 |
| | 74.68 | | | | | 08/03/15 | 61.67 | 13.01 |
| | | | | | | 12/07/15 | 63.19 | 11.49 |
| | | | | | | 03/07/16 | 63.22 | 11.46 |
| | | | | | | 07/12/16 | 62.82 | 11.86 |
| | | | | | | 10/18/16 | 61.26 | 13.42 |
| | | | | | | 01/24/17 | 58.41 | 16.27 |
| | | | | | | 05/31/17 | 59.90 | 14.78 |
| | | | | | | 09/21/17 | 65.17 | 9.51 |
| | | | | | | 12/14/17 | INACCESSIBLE | |
| | | | | | | 03/08/18 | 61.76 | 12.92 |
| MW07 | 74.68 | 55 | 70 | 20 | 5 | 06/28/18 | 59.45 | 15.23 |
| | | | | | | 09/19/18 | 59.07 | 15.61 |
| | | | | | | 12/13/18 | 58.87 | 15.81 |
| | | | | | | 06/13/19 | 57.93 | 16.75 |



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Well | TOC Elevation ⁽¹⁾ (feet) | Depth to Top of Well Screen (feet approximate) | Depth to Bottom of Well Screen (feet approximate) | Top of Well Screen Elevation (feet NAVD88 approximate) | Bottom of Well Screen Elevation (feet NAVD88 approximate) | Date | Depth to Groundwater (feet below TOC) | Groundwater Elevation (feet NAVD88) |
|---------------------------|-------------------------------------|--|---|--|---|--------------|---------------------------------------|-------------------------------------|
| MW13 | 90.66 | 70 | 85 | 21 | -15 | 10/20/11 | 74.69 | 15.97 |
| | | | | | | 12/10/12 | 75.38 | 15.28 |
| | | | | | | 08/29/13 | 76.23 | 14.43 |
| | 05/05/15 | | | | | INACCESSIBLE | | |
| | 08/03/15 | | | | | 80.07 | 10.79 | |
| | 12/07/15 | | | | | 80.73 | 10.13 | |
| | 03/07/16 | | | | | 80.07 | 10.79 | |
| | 07/12/16 | | | | | 80.03 | 10.83 | |
| | 10/18/16 | | | | | 78.16 | 12.70 | |
| | 01/24/17 | | | | | 75.56 | 15.30 | |
| | 05/31/17 | | | | | 77.40 | 13.46 | |
| | 09/21/17 | | | | | 80.46 | 10.40 | |
| | 12/14/17 | | | | | 80.19 | 10.67 | |
| | 03/08/18 | | | | | 78.13 | 12.73 | |
| | 06/28/18 | | | | | 77.01 | 13.85 | |
| 09/19/18 | 76.68 | 14.18 | | | | | | |
| 12/13/18 | 76.52 | 14.34 | | | | | | |
| 06/13/19 | 76.00 | 14.86 | | | | | | |
| MW27 | 83.82 | 90 | 105 | -6 | -21 | 12/07/15 | 73.86 | 9.96 |
| | | | | | | 03/07/16 | 73.23 | 10.59 |
| | | | | | | 07/12/16 | 73.01 | 10.81 |
| | | | | | | 10/18/16 | 71.38 | 12.44 |
| | | | | | | 01/24/17 | 69.57 | 14.25 |
| | | | | | | 05/31/17 | 70.89 | 12.93 |
| | | | | | | 09/21/17 | 73.87 | 9.95 |
| | | | | | | 12/14/17 | 73.25 | 10.57 |
| | | | | | | 03/08/18 | 71.10 | 12.72 |
| | | | | | | 06/28/18 | 70.20 | 13.62 |
| | | | | | | 09/19/18 | 69.85 | 13.97 |
| 12/13/18 | 69.69 | 14.13 | | | | | | |
| 06/13/19 | 69.19 | 14.63 | | | | | | |
| Terry Avenue North | | | | | | | | |
| MW15 | 58.79 | 41 | 56 | 18 | 3 | 12/10/12 | 40.78 | 18.01 |
| | | | | | | 08/29/13 | 45.37 | 13.42 |
| | | | | | | 05/05/15 | 45.86 | 13.03 |
| | 08/03/15 | | | | | 44.81 | 14.08 | |
| | 12/07/15 | | | | | 47.08 | 11.81 | |
| | 03/07/16 | | | | | 47.58 | 11.31 | |
| | 07/12/16 | | | | | 46.73 | 12.16 | |
| | 10/18/16 | | | | | 44.97 | 13.92 | |
| | 01/24/17 | | | | | 42.05 | 16.84 | |
| | 05/31/17 | | | | | 43.08 | 15.81 | |
| | 09/21/17 | | | | | 49.62 | 9.27 | |
| | 12/14/17 | | | | | 49.92 | 8.97 | |
| | 03/08/18 | | | | | 45.80 | 13.09 | |
| | 06/28/18 | | | | | 42.95 | 15.94 | |
| | 09/19/18 | | | | | 42.35 | 16.54 | |
| 12/13/18 | 42.26 | 16.63 | | | | | | |
| 06/13/19 | 41.65 | 17.24 | | | | | | |



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Well | TOC Elevation ⁽¹⁾ (feet) | Depth to Top of Well Screen (feet approximate) | Depth to Bottom of Well Screen (feet approximate) | Top of Well Screen Elevation (feet NAVD88 approximate) | Bottom of Well Screen Elevation (feet NAVD88 approximate) | Date | Depth to Groundwater (feet below TOC) | Groundwater Elevation (feet NAVD88) |
|------------------------------|-------------------------------------|--|---|--|---|----------|---------------------------------------|-------------------------------------|
| Thomas Street | | | | | | | | |
| MW14 | 104.40 | 90 | 105 | 14 | -1 | 10/20/11 | 88.81 | 15.59 |
| | | | | | | 12/13/12 | 88.66 | 15.74 |
| | | | | | | 08/29/13 | 89.99 | 14.41 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW16 | 99.02 | 91 | 106 | 8 | -7 | 12/10/12 | 83.47 | 15.55 |
| | 99.18 | | | | | 08/29/13 | 84.59 | 14.43 |
| | | | | | | 05/05/15 | 88.87 | 10.31 |
| | | | | | | 08/03/15 | 88.53 | 10.65 |
| | | | | | | 12/07/15 | 89.15 | 10.03 |
| | | | | | | 03/07/16 | 88.54 | 10.64 |
| | | | | | | 07/12/16 | 88.41 | 10.77 |
| | | | | | | 10/18/16 | 86.74 | 12.44 |
| | | | | | | 01/24/17 | 84.71 | 14.47 |
| | | | | | | 05/31/17 | 86.04 | 13.14 |
| | | | | | | 09/21/17 | 88.85 | 10.33 |
| 12/14/17 | 88.43 | 10.75 | | | | | | |
| 03/08/18 | 86.51 | 12.67 | | | | | | |
| WELL DAMAGED 2018 | | | | | | | | |
| Fairview Avenue North | | | | | | | | |
| MW-C | 107.75 | 85 | 100 | 23 | 8 | 08/29/13 | 93.32 | 14.43 |
| | | | | | | 05/05/15 | 97.64 | 10.11 |
| Harrison Street | | | | | | | | |
| MW01 | 68.68 | 45 | 60 | 24 | 9 | 05/25/11 | 50.59 | 18.09 |
| | | | | | | 10/20/11 | 51.03 | 17.65 |
| | | | | | | 12/10/12 | 51.24 | 17.44 |
| | 68.82 | | | | | 08/29/13 | 54.35 | 14.33 |
| | | | | | | 05/05/15 | 58.11 | 10.71 |
| | 68.65 | | | | | 08/03/15 | INACCESSIBLE | |
| | | | | | | 12/07/15 | 58.60 | 10.22 |
| | | | | | | 03/07/16 | 57.69 | 11.13 |
| | | | | | | 07/12/16 | 57.42 | 11.23 |
| | | | | | | 10/18/16 | 55.65 | 13.00 |
| | | | | | | 01/24/17 | 52.27 | 16.38 |
| | | | | | | 05/31/17 | 54.69 | 13.96 |
| | | | | | | 09/21/17 | 58.91 | 9.74 |
| | | | | | | 12/14/17 | 58.14 | 10.51 |
| | | | | | | 03/08/18 | 55.84 | 12.81 |
| 06/28/18 | 54.20 | 14.45 | | | | | | |
| 09/19/18 | 53.93 | 14.72 | | | | | | |
| 12/13/18 | 53.05 | 15.60 | | | | | | |
| 06/13/19 | 52.34 | 16.31 | | | | | | |
| MW02 | 70.92 | 55 | 70 | 16 | 1 | 05/25/11 | 54.84 | 16.08 |
| | | | | | | 10/20/11 | 55.08 | 15.84 |
| | | | | | | 12/10/12 | 55.27 | 15.65 |
| | | | | | | 08/29/13 | 56.48 | 14.44 |
| | | | | | | 05/05/15 | INACCESSIBLE | |
| | | | | | | 08/03/15 | INACCESSIBLE | |
| DECOMMISSIONED 2015 | | | | | | | | |



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Well | TOC Elevation ⁽¹⁾ (feet) | Depth to Top of Well Screen (feet approximate) | Depth to Bottom of Well Screen (feet approximate) | Top of Well Screen Elevation (feet NAVD88 approximate) | Bottom of Well Screen Elevation (feet NAVD88 approximate) | Date | Depth to Groundwater (feet below TOC) | Groundwater Elevation (feet NAVD88) |
|---------------------------------|-------------------------------------|--|---|--|---|----------|---------------------------------------|-------------------------------------|
| MW03 | 84.65 | 65 | 80 | 20 | 5 | 05/27/11 | 68.75 | 15.90 |
| | | | | | | 10/20/11 | 68.97 | 15.68 |
| | | | | | | 12/10/12 | 69.21 | 15.44 |
| | | | | | | 08/29/13 | 70.21 | 14.44 |
| | | | | | | 05/05/15 | INACCESSIBLE | |
| | | | | | | 08/03/15 | INACCESSIBLE | |
| DECOMMISSIONED 2015 | | | | | | | | |
| MW26 | 70.57 | 75 | 90 | -4 | -19 | 12/07/15 | 60.42 | 10.15 |
| | | | | | | 03/07/16 | 59.82 | 10.75 |
| | | | | | | 07/12/16 | 59.52 | 11.05 |
| | | | | | | 10/18/16 | 58.10 | 12.47 |
| | | | | | | 01/24/17 | 56.10 | 14.47 |
| | | | | | | 05/31/17 | 57.79 | 12.78 |
| | | | | | | 09/21/17 | 60.94 | 9.63 |
| | | | | | | 12/14/17 | 60.11 | 10.46 |
| | | | | | | 03/08/18 | 57.79 | 12.78 |
| | | | | | | 06/28/18 | 56.83 | 13.74 |
| | | | | | | 09/19/18 | 56.50 | 14.07 |
| | | | | | | 12/13/18 | 56.34 | 14.23 |
| 06/13/19 | 55.82 | 14.75 | | | | | | |
| SMW01 | 49.45 | 30 | 40 | 19 | 9 | 08/29/13 | 36.78 | 12.67 |
| SMW02 | 49.26 | 30 | 40 | 19 | 9 | 08/29/13 | 36.67 | 12.59 |
| SMW06 | 48.63 | 30 | 40 | 19 | 9 | 08/29/13 | 36.39 | 12.24 |
| SMW08 | 49.30 | 30 | 40 | 19 | 9 | 08/29/13 | 36.69 | 12.61 |
| Westlake Avenue North | | | | | | | | |
| SMW09 | 48.25 | 30 | 40 | 18 | 8 | 08/29/13 | 35.84 | 12.41 |
| North-Adjoining Property | | | | | | | | |
| SLU-MW01 ⁽²⁾ | 53.43 | 35 | 45 | 18 | 8 | 08/29/13 | 40.00 | 13.43 |
| DECOMMISSIONED 2013 | | | | | | | | |
| SLU-MW02 ⁽²⁾ | 52.76 | 30 | 40 | 23 | 13 | 08/29/13 | Dry | -- |
| DECOMMISSIONED 2013 | | | | | | | | |

NOTES:

⁽¹⁾TOC elevations surveyed relative to NAVD88.

⁽²⁾Groundwater elevation data compiled from reports on file at the Washington State Department of Ecology.

-- = not analyzed, measured, or calculated

NAVD88 = North American Vertical Datum of 1988

TOC = top of casing



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Sample Location | Sample Identification | Sample Date | Sampled By | Analytical Results (µg/L) | | | | |
|------------------------------|-----------------------|-------------|------------|---------------------------|------------------------|----------------------------|------------------------------|-------------------------------|
| | | | | PCE ⁽¹⁾ | TCE ⁽¹⁾ | cis-1-2-DCE ⁽¹⁾ | trans-1-2-DCE ⁽¹⁾ | Vinyl Chloride ⁽¹⁾ |
| Troy Laundry Property | | | | | | | | |
| MW06 | MW06-20110531 | 05/31/11 | SoundEarth | 3.1 | 8.2 | 150^{ve} | <1 | 0.76 |
| | MW06-20111012 | 10/12/11 | SoundEarth | 3.6 | 11 | 120 | <1 | 0.76 |
| | MW06-20130909 | 09/09/13 | SoundEarth | 3.8 | 4.5 | 150 | <1 | 0.93 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW08 | MW08-20111013 | 10/13/11 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW08-20130910 | 09/10/13 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW09 | MW09-20111013 | 10/13/11 | SoundEarth | <1 | 16 | 22 | <1 | <0.2 |
| | MW09-20130910 | 09/10/13 | SoundEarth | 1.6 | 15 | 2.0 | <1 | <0.2 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW10 | MW10-20111012 | 10/12/11 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW10-20130909 | 09/09/13 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW11 | MW11-20111013 | 10/13/11 | SoundEarth | 21 | 2.6 | 5.6 | <1 | <0.2 |
| | MW11-20130909 | 09/09/13 | SoundEarth | 39 | 3.8 | 3.6 | <1 | <0.2 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW12 | MW12-20111017 | 10/17/11 | SoundEarth | <1 | 19 | 1.3 | <1 | <0.2 |
| | MW12-20130909 | 09/09/13 | SoundEarth | <1 | 20 | <1 | <1 | <0.2 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW17 | MW17-20150506 | 05/06/15 | SoundEarth | <1 | 2.2 | <1 | <1 | <0.2 |
| | MW17-20150804 | 08/07/15 | SoundEarth | <1 | 1.5 | <1 | <1 | <0.2 |
| | MW17-20151207 | 12/07/15 | SoundEarth | <1 | 1.5 | <1 | <1 | <0.2 |
| | MW17-20160308 | 03/08/16 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW17-20160714 | 07/14/16 | SoundEarth | <1 | 1.2 | <1 | <1 | <0.2 |
| | MW17-20161020 | 10/20/16 | SoundEarth | <1 | 2.1 | <1 | <1 | <0.2 |
| | MW17-20170126 | 01/26/17 | SoundEarth | <1 | 1.9 | <1 | <1 | <0.2 |
| | MW17-20170601 | 06/01/17 | SoundEarth | <1 | 2.5 | <1 | <1 | <0.2 |
| | MW17-20170923 | 09/23/17 | SoundEarth | <1 | 2.1 | 1.2 | <1 | <0.2 |
| | MW17-20171216 | 12/16/17 | SoundEarth | <1 | 2.5 | 1.7 | <1 | <0.2 |
| | MW17-20180310 | 03/10/18 | SoundEarth | <1 | 2.6 | 1.5 | <1 | <0.2 |
| | MW17-20180630 | 06/30/18 | SoundEarth | <1 | 2.8 | 2.2 | <1 | <0.2 |
| | MW17-20180922 | 09/22/18 | SoundEarth | <1 | 2.7 | 2.0 | <1 | <0.2 |
| MW17-20181215 | 12/15/18 | SoundEarth | <1 | 2.9 | 2.2 | <1 | <0.2 | |
| MW17-20190615 | 06/15/19 | SoundEarth | <1 | 3.4 | 2.2 | <1 | <0.2 | |
| MW18 | MW18-20150506 | 05/06/15 | SoundEarth | <1 | 46 | 5.2 | <1 | <0.2 |
| | MW18-20150803 | 08/03/15 | SoundEarth | <1 | 51 | 4.6 | <1 | <0.2 |
| | MW18-20151208 | 12/08/15 | SoundEarth | <1 | 51 | 9.9 | <1 | <0.2 |
| | MW18-20160308 | 03/08/16 | SoundEarth | <1 | 44 | 8.1 | <1 | <0.2 |
| | MW18-20160714 | 07/14/16 | SoundEarth | <1 | 3.3 | 1.7 | <1 | <0.2 |
| | MW18-20161020 | 10/20/16 | SoundEarth | <1 | 6.5 | 4.0 | <1 | <0.2 |
| | MW18-20170126 | 01/26/17 | SoundEarth | <1 | 7.7 | 14 | <1 | 0.25 |
| | MW18-20170601 | 06/01/17 | SoundEarth | <1 | 3.3 | 14 | <1 | 0.31 |
| | MW18-20170923 | 09/23/17 | SoundEarth | <1 | <1 | 22 | <1 | 0.38 |
| | MW18-20171216 | 12/16/17 | SoundEarth | <1 | <1 | 22 | <1 | 0.24 |
| | MW18-20180310 | 03/10/18 | SoundEarth | <1 | <1 | 27 | <1 | 0.40 |
| | MW18-20180630 | 06/30/18 | SoundEarth | <1 | <1 | 27 | <1 | 0.43 |
| | MW18-20180922 | 09/22/18 | SoundEarth | <1 | <1 | 21 | <1 | 0.42 |
| MW18-20181215 | 12/15/18 | SoundEarth | <1 | <1 | 24 | <1 | 0.49 | |
| MW18-20190615 | 06/15/19 | SoundEarth | <1 | <1 | 28 | <1 | 0.44 | |
| MTCA Cleanup Level | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 0.2⁽²⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Sample Location | Sample Identification | Sample Date | Sampled By | Analytical Results (µg/L) | | | | |
|---------------------------|-----------------------|-------------|------------|---------------------------|------------------------|----------------------------|------------------------------|-------------------------------|
| | | | | PCE ⁽¹⁾ | TCE ⁽¹⁾ | cis-1-2-DCE ⁽¹⁾ | trans-1-2-DCE ⁽¹⁾ | Vinyl Chloride ⁽¹⁾ |
| MW19 | MW19-20150507 | 05/07/15 | SoundEarth | <1 | 69 | 15 | <1 | <0.2 |
| | MW19-20150803 | 08/03/15 | SoundEarth | <1 | 61 | 20 | <1 | <0.2 |
| | MW19-20151207 | 12/07/15 | SoundEarth | <1 | 65 | 23 | <1 | <0.2 |
| | MW19-20160308 | 03/08/16 | SoundEarth | <1 | 52 | 26 | <1 | <0.2 |
| | MW19-20160713 | 07/13/16 | SoundEarth | <1 | 4.6 | 10 | <1 | <0.2 |
| | MW19-20161021 | 10/21/16 | SoundEarth | <1 | 10 | 4.4 | <1 | 0.40 |
| | MW19-20170125 | 01/25/17 | SoundEarth | <1 | 5.5 | 3.9 | <1 | 0.30 |
| | MW19-20170601 | 06/01/17 | SoundEarth | <1 | 5.7 | 3.5 | <1 | 0.44 |
| | MW19-20170923 | 09/23/17 | SoundEarth | <1 | 1.7 | 3.4 | <1 | 0.97 |
| | MW19-20171216 | 12/16/17 | SoundEarth | <1 | 1.1 | 13 | <1 | 0.97 |
| | MW19-20180310 | 03/10/18 | SoundEarth | <1 | <1 | 12 | <1 | 0.78 |
| MW19-20180630 | 06/30/18 | SoundEarth | <1 | <1 | 12 | <1 | 0.96 | |
| MW19-20180922 | 09/22/18 | SoundEarth | <1 | <1 | 16 | <1 | 0.86 | |
| MW19-20190615 | 06/15/19 | SoundEarth | <1 | <1 | 27 | <1 | 0.79 | |
| MW20 | MW20-20150506 | 05/06/15 | SoundEarth | <1 | <1 | 1.5 | <1 | <0.2 |
| | MW20-20150803 | 08/03/15 | SoundEarth | <1 | <1 | 1.2 | <1 | <0.2 |
| | MW20-20151207 | 12/07/15 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW20-20160309 | 03/09/16 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW20-20160715 | 07/15/16 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW20-20161020 | 10/20/16 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW20-20170125 | 01/25/17 | SoundEarth | <1 | <1 | 4.1 | <1 | <0.2 |
| | MW20-20170601 | 06/01/17 | SoundEarth | <1 | <1 | 1.2 | <1 | <0.2 |
| | MW20-20170924 | 09/24/17 | SoundEarth | <1 | <1 | 9.5 | <1 | <0.2 |
| | MW20-20171216 | 12/16/17 | SoundEarth | <1 | 1.3 | 15 | <1 | 0.35 |
| | MW20-20180310 | 03/10/18 | SoundEarth | <1 | <1 | 11 | <1 | <0.2 |
| | MW20-20180630 | 06/30/18 | SoundEarth | <1 | <1 | 7 | <1 | <0.2 |
| | MW20-20180922 | 09/22/18 | SoundEarth | <1 | <1 | 5.3 | <1 | <0.2 |
| MW20-20181215 | 12/15/18 | SoundEarth | <1 | <1 | 4.4 | <1 | <0.2 | |
| MW20-20190615 | 06/15/19 | SoundEarth | <1 | <1 | 3.8 | <1 | <0.2 | |
| MW21 | MW21-20150506 | 05/06/15 | SoundEarth | 5.1 | 1.6 | 7.2 | <1 | <0.2 |
| | MW21-20150804 | 08/04/15 | SoundEarth | 4.9 | 1.4 | 4.5 | <1 | <0.2 |
| | MW21-20151208 | 12/08/15 | SoundEarth | 7.3 | 2.0 | 6.7 | <1 | <0.2 |
| | MW21-20160309 | 03/09/16 | SoundEarth | 5.3 | 1.4 | 7.9 | <1 | <0.2 |
| | MW21-20160713 | 07/13/16 | SoundEarth | <1 | <1 | 1.2 | <1 | <0.2 |
| | MW21-20161020 | 10/20/16 | SoundEarth | <1 | <1 | 1.7 | <1 | <0.2 |
| | MW21-20170126 | 01/26/17 | SoundEarth | <1 | <1 | 2.4 | <1 | <0.2 |
| | MW21-20170601 | 06/01/17 | SoundEarth | <1 | <1 | 2.4 | <1 | <0.2 |
| | MW21-20170923 | 09/23/17 | SoundEarth | <1 | <1 | 3.7 | <1 | <0.2 |
| | MW21-20171216 | 12/16/17 | SoundEarth | <1 | <1 | 14 | <1 | 0.49 |
| | MW21-20180310 | 03/10/18 | SoundEarth | <1 | <1 | 14 | <1 | 0.43 |
| | MW21-20180630 | 06/30/18 | SoundEarth | <1 | <1 | 6.0 | <1 | 0.29 |
| | MW21-20180922 | 09/22/18 | SoundEarth | <1 | <1 | 6.9 | <1 | 0.30 |
| MW21-20181215 | 12/15/18 | SoundEarth | <1 | <1 | 16 | <1 | 0.96 | |
| MW21-20190615 | 06/15/19 | SoundEarth | <1 | <1 | 29 | <1 | 1.1 | |
| MTCA Cleanup Level | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 0.2⁽²⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Sample Location | Sample Identification | Sample Date | Sampled By | Analytical Results (µg/L) | | | | |
|---------------------------|-----------------------|-------------|------------|---------------------------|------------------------|----------------------------|------------------------------|-------------------------------|
| | | | | PCE ⁽¹⁾ | TCE ⁽¹⁾ | cis-1-2-DCE ⁽¹⁾ | trans-1-2-DCE ⁽¹⁾ | Vinyl Chloride ⁽¹⁾ |
| MW22 | MW22-20150506 | 05/06/15 | SoundEarth | 11 | 2.2 | 27 | <1 | <0.2 |
| | MW22-20150804 | 08/04/15 | SoundEarth | 17 | 3.0 | 34 | <1 | <0.2 |
| | MW22-20151208 | 12/08/15 | SoundEarth | 19 | 3.7 | 42 | <1 | <0.2 |
| | MW22-20160308 | 03/08/16 | SoundEarth | 28 | 4.5 | 52 | <1 | 0.35 |
| | MW22-20160713 | 07/13/16 | SoundEarth | <1 | <1 | 5.5 | <1 | <0.2 |
| | MW22-20161020 | 10/20/16 | SoundEarth | <1 | <1 | 6.7 | <1 | 0.65 |
| | MW22-20170126 | 01/26/17 | SoundEarth | <1 | <1 | 8.5 | <1 | 0.51 |
| | MW22-20170601 | 06/01/17 | SoundEarth | <1 | <1 | 10 | <1 | 1.5 |
| | MW22-20170923 | 09/23/17 | SoundEarth | <1 | <1 | 18 | <1 | 1.4 |
| | MW22-20171216 | 12/16/17 | SoundEarth | <1 | <1 | 22 | <1 | 1.2 |
| | MW22-20180310 | 03/10/18 | SoundEarth | <1 | <1 | 22 | <1 | 1.3 |
| MW22-20180630 | 06/30/18 | SoundEarth | <1 | <1 | 28 | <1 | 1.2 | |
| MW22-20180922 | 09/22/18 | SoundEarth | <1 | <1 | 33 | <1 | 0.90 | |
| MW22-20181215 | 12/15/18 | SoundEarth | <1 | <1 | 37 | <1 | 1.2 | |
| MW22-20190615 | 06/15/19 | SoundEarth | 1.1 | 1.1 | 49 | <1 | 1.0 | |
| MW23 | MW23-20150507 | 05/07/15 | SoundEarth | 6.1 | 18 | 13 | <1 | <0.2 |
| | MW23-20150804 | 08/04/15 | SoundEarth | 6.1 | 24 | 20 | <1 | 0.20 |
| | MW23-20151208 | 12/08/15 | SoundEarth | 3.8 | 16 | 120 | <1 | 0.57 |
| | MW23-20160308 | 03/08/16 | SoundEarth | 4.1 | 14 | 95 | <1 | 0.64 |
| | MW23-20160714 | 07/14/16 | SoundEarth | <1 | 1.6 | 14 | <1 | 2.2 |
| | MW23-20161020 | 10/20/16 | SoundEarth | <1 | 2.1 | 9.9 | <1 | 0.48 |
| | MW23-20170126 | 01/26/17 | SoundEarth | <1 | 2.9 | 41 | <1 | 1.4 |
| | MW23-20170601 | 06/01/17 | SoundEarth | <1 | 2.7 | 23 | <1 | 0.74 |
| | MW23-20170923 | 09/23/17 | SoundEarth | <1 | 1.7 | 16 | <1 | 0.50 |
| | MW23-20171216 | 12/16/17 | SoundEarth | <1 | 1.3 | 14 | <1 | 0.51 |
| | MW23-20180310 | 03/10/18 | SoundEarth | <1 | <1 | 20 | <1 | 0.52 |
| MW23-20180630 | 06/30/18 | SoundEarth | <1 | <1 | 14 | <1 | 0.53 | |
| MW23-20180922 | 09/22/18 | SoundEarth | <1 | <1 | 16 | <1 | 0.53 | |
| MW23-20181215 | 12/15/18 | SoundEarth | <1 | <1 | 17 | <1 | <0.2 | |
| MW23-20190615 | 06/15/19 | SoundEarth | <1 | <1 | 25 | <1 | 0.72 | |
| MW24 | MW24-20150506 | 05/06/15 | SoundEarth | 2.5 | 31 | 72 | <1 | 0.26 |
| | MW24-20150804 | 08/04/15 | SoundEarth | 5.5 | 28 | 75 | <1 | <0.2 |
| | MW24-20151208 | 12/08/15 | SoundEarth | 11 | 28 | 54 | <1 | <0.2 |
| | MW24-20160309 | 03/09/16 | SoundEarth | 11 | 23 | 45 | <1 | <0.2 |
| | MW24-20160715 | 07/15/16 | SoundEarth | <1 | 1.7 | 12 | <1 | <0.2 |
| | MW98-20160715 (DUP) | | | <1 | 1.8 | 12 | <1 | <0.2 |
| | MW24-20161020 | 10/20/16 | SoundEarth | <1 | 2.7 | 12 | <1 | 0.26 |
| | MW24-20170125 | 01/25/17 | SoundEarth | <1 | 3.5 | 20 | <1 | 0.81 |
| | MW24-20170601 | 06/01/17 | SoundEarth | 1.1 | 4.8 | 35 | <1 | 1.0 |
| | MW24-20170924 | 09/24/17 | SoundEarth | <1 | 1.8 | 33 | <1 | 0.36 |
| | MW24-20171216 | 12/16/17 | SoundEarth | <1 | 1.3 | 30 | <1 | 0.38 |
| | MW24-20180310 | 03/10/18 | SoundEarth | <1 | <1 | 25 | <1 | 0.36 |
| | MW24-20180630 | 06/30/18 | SoundEarth | 1.5 | 1.9 | 41 | <1 | 2.1 |
| MW24-20180922 | 09/22/18 | SoundEarth | <1 | <1 | 35 | <1 | 0.37 | |
| MW24-20181215 | 12/15/18 | SoundEarth | <1 | <1 | 43 | <1 | 0.51 | |
| MW24-20190615 | 06/15/19 | SoundEarth | <1 | <1 | 84 | <1 | 1.0 | |
| MTCA Cleanup Level | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 0.2⁽²⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Sample Location | Sample Identification | Sample Date | Sampled By | Analytical Results (µg/L) | | | | |
|---------------------------|-----------------------|-------------|------------|---------------------------|------------------------|----------------------------|------------------------------|-------------------------------|
| | | | | PCE ⁽¹⁾ | TCE ⁽¹⁾ | cis-1-2-DCE ⁽¹⁾ | trans-1-2-DCE ⁽¹⁾ | Vinyl Chloride ⁽¹⁾ |
| MW25 | MW25-20150507 | 05/07/15 | SoundEarth | <1 | 68 | 5.2 | <1 | <0.2 |
| | MW99-20150507 (DUP) | | | <1 | 69 | 5.3 | <1 | <0.2 |
| | MW25-20150805 | 08/05/15 | SoundEarth | 3.0 | 75 | 7.9 | <1 | <0.2 |
| | MW99-20150805 (DUP) | | | 2.9 | 73 | 7.8 | <1 | <0.2 |
| | MW25-20151209 | 12/09/15 | SoundEarth | 11 | 71 | 8.4 | <1 | <0.2 |
| | MW99-20151209 (DUP) | | | 11 | 72 | 8.3 | <1 | <0.2 |
| | MW25-20160308 | 03/08/16 | SoundEarth | 24 | 50 | 12 | <1 | <0.2 |
| | MW99-20160308(DUP) | | | 25 | 50 | 12 | <1 | <0.2 |
| | MW25-20160713 | 07/13/16 | SoundEarth | 6.1 | 4.8 | 23 | <1 | 0.70 |
| | MW25-20161019 | 10/19/16 | SoundEarth | 1.8 | 5.1 | 15 | <1 | 0.96 |
| | MW99-20161019 (DUP) | | | 1.7 | 5.0 | 16 | <1 | 1.0 |
| | MW25-20170125 | 01/25/17 | SoundEarth | 1.0 | 3.6 | 44 | <1 | 0.89 |
| | MW99-20170125 (DUP) | | | 1.1 | 3.7 | 44 | <1 | 0.92 |
| | MW25-20170601 | 06/01/17 | SoundEarth | <1 | 1.2 | 15 | <1 | 0.31 |
| | MW99-20170601 (DUP) | | | <1 | 1.3 | 15 | <1 | 0.41 |
| | MW25-20170923 | 09/23/17 | SoundEarth | <1 | <1 | 15 | <1 | 0.40 |
| | MW99-20170923 (DUP) | | | <1 | <1 | 15 | <1 | 0.34 |
| | MW25-20171216 | 12/16/17 | SoundEarth | <1 | <1 | 23 | <1 | 0.41 |
| | MW99-20171216 (DUP) | | | <1 | <1 | 23 | <1 | 0.40 |
| | MW25-20180310 | 03/10/18 | SoundEarth | <1 | <1 | 25 | <1 | 0.32 |
| MW99-20180310 (DUP) | <1 | | | <1 | 25 | <1 | 0.30 | |
| MW25-20180630 | 06/30/18 | SoundEarth | <1 | <1 | 31 | <1 | 0.52 | |
| MW99-20180630 (DUP) | | | <1 | <1 | 32 | <1 | 0.49 | |
| MW25-20180922 | 09/22/18 | SoundEarth | <1 | <1 | 37 | <1 | 0.46 | |
| MW99-20180922 (DUP) | | | <1 | <1 | 36 | <1 | 0.51 | |
| MW25-20181215 | 12/15/18 | SoundEarth | <1 | <1 | 40 | <1 | 0.60 | |
| MW99-20181215 (DUP) | | | <1 | <1 | 39 | <1 | 0.57 | |
| MW25-20190615 | 06/15/19 | SoundEarth | <1 | <1 | 45 | <1 | 0.54 | |
| MW99-20190615 (DUP) | | | <1 | <1 | 43 | <1 | 0.50 | |
| IW04 | IW04-20150508 | 05/08/15 | SoundEarth | <1 | 15 | 1.9 | <1 | <0.2 |
| | IW04-20160309 | 03/09/16 | SoundEarth | <1 | 2.5 | 11 | <1 | <0.2 |
| | IW04-20160714 | 07/14/16 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | IW04-20161021 | 10/21/16 | SoundEarth | <1 | <1 | 1.8 | <1 | <0.2 |
| | IW04-20170126 | 01/26/17 | SoundEarth | <1 | 1.1 | 4.8 | <1 | <0.2 |
| | IW04-20170601 | 06/01/17 | SoundEarth | <1 | 1.2 | 12 | <1 | 0.21 |
| | IW04-20170923 | 09/23/17 | SoundEarth | <1 | <1 | 14 | <1 | 0.22 |
| | IW04-20171216 | 12/16/17 | SoundEarth | <1 | <1 | 19 | <1 | 0.54 |
| | IW04-20180310 | 03/10/18 | SoundEarth | <1 | <1 | 9.0 | <1 | 0.65 |
| | IW04-20180630 | 06/30/18 | SoundEarth | <1 | <1 | 5.3 | <1 | 0.68 |
| | IW04-20180922 | 09/22/18 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| IW04-20181215 | 12/15/18 | SoundEarth | <1 | <1 | 1.9 | <1 | 1.6 | |
| IW04-20190615 | 06/15/19 | SoundEarth | <1 | <1 | 1.7 | <1 | 1.0 | |
| IW06 | IW06-20150507 | 05/07/15 | SoundEarth | 6.3 | 13 | <1 | <1 | <0.2 |
| | IW06-20180310 | 03/10/18 | SoundEarth | <1 | <1 | 1.6 | <1 | <0.2 |
| | IW06-20180630 | 06/30/18 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | IW06-20181215 | 12/15/18 | SoundEarth | 1.0 | <1 | <1 | <1 | <0.2 |
| | IW06-20190615 | 06/15/19 | SoundEarth | 1.7 | <1 | <1 | <1 | <0.2 |
| MTCA Cleanup Level | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 0.2⁽²⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Sample Location | Sample Identification | Sample Date | Sampled By | Analytical Results (µg/L) | | | | |
|---------------------------|-----------------------|-------------|------------|---------------------------|------------------------|----------------------------|------------------------------|-------------------------------|
| | | | | PCE ⁽¹⁾ | TCE ⁽¹⁾ | cis-1-2-DCE ⁽¹⁾ | trans-1-2-DCE ⁽¹⁾ | Vinyl Chloride ⁽¹⁾ |
| IW50 | IW50-20150803 | 08/03/15 | SoundEarth | 4.1 | 8.1 | 44 | <1 | <0.2 |
| | IW50-20151208 | 12/08/15 | SoundEarth | <1 | <1 | 140 | <1 | 1.8 |
| | IW50-20160309 | 03/09/16 | SoundEarth | <1 | <1 | 110 | <1 | 1.9 |
| | IW50-20160715 | 07/15/16 | SoundEarth | 3.7 | <1 | 38 | <1 | 2.5 |
| | IW50-20161021 | 10/21/16 | SoundEarth | 3.7 | <1 | 23 | <1 | 1.0 |
| | IW50-20170126 | 01/26/17 | SoundEarth | 13 | 2.1 | 34 | <1 | 0.74 |
| | IW50-20170602 | 06/02/17 | SoundEarth | <1 | <1 | 81 | <1 | 0.95 |
| | IW50-20170924 | 09/24/17 | SoundEarth | <1 | <1 | 26 | <1 | 2.6 |
| | IW50-20171216 | 12/16/17 | SoundEarth | <1 | <1 | 15 | <1 | 2.2 |
| | IW50-20180310 | 03/10/18 | SoundEarth | <1 | <1 | 8.0 | <1 | 3.6 |
| | IW50-20180630 | 06/30/18 | SoundEarth | <1 | <1 | 4.5 | <1 | 2.5 |
| IW50-20180922 | 09/22/18 | SoundEarth | <1 | <1 | 5.1 | <1 | 2.9 | |
| IW50-20181215 | 12/15/18 | SoundEarth | 1.6 | <1 | 15 | <1 | 4.5 | |
| IW50-20190615 | 06/15/19 | SoundEarth | 5.2 | 2.0 | 54 | <1 | 7.1 | |
| IW61 | IW61-20151208 | 12/08/15 | SoundEarth | 10 | 2.8 | 120 | <1 | 0.86 |
| | IW61-20160309 | 03/09/16 | SoundEarth | 23 | 4.2 | 140 | <1 | 1.7 |
| | IW61-20160714 | 07/14/16 | SoundEarth | 8.3 | 1.6 | 24 | <1 | 1.6 |
| | IW61-20161021 | 10/21/16 | SoundEarth | 9.5 | 2.8 | 34 | <1 | 0.96 |
| | IW61-20170126 | 01/26/17 | SoundEarth | 8.3 | 2.9 | 32 | <1 | 0.96 |
| | IW61-20170602 | 06/02/17 | SoundEarth | 9.9 | 3.4 | 41 | <1 | 1.3 |
| | IW61-20170923 | 09/23/17 | SoundEarth | 12 | 3.2 | 45 | <1 | 1.2 |
| | IW61-20171216 | 12/16/17 | SoundEarth | 15 | 3.2 | 65 | <1 | 1.2 |
| | IW61-20180310 | 03/10/18 | SoundEarth | 15 | 2.7 | 71 | <1 | 1.1 |
| | IW61-20180323* | 03/23/18 | SoundEarth | 15 | 2.9 | 82 | <1 | 1.3 |
| | IW61-20180630 | 06/30/18 | SoundEarth | 16 | 2.5 | 67 | <1 | 1.7 |
| IW61-20180922 | 09/22/18 | SoundEarth | 13 | 2.1 | 63 | <1 | 1.8 | |
| IW61-20181215 | 12/15/18 | SoundEarth | 15 | 2.1 | 58 | <1 | 2.0 | |
| IW61-20190615 | 06/15/19 | SoundEarth | 13 | 2.4 | 71 | <1 | 2.9 | |
| IW91 | IW91-20150506 | 05/06/15 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | IW91-20150804 | 08/04/15 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | IW91-20151208 | 12/08/15 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | IW91-20160309 | 03/09/16 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | IW91-20160714 | 07/14/16 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | IW91-20161020 | 10/20/16 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | IW91-20170126 | 01/26/17 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | IW91-20170601 | 06/01/17 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | IW91-20170923 | 09/23/17 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | IW91-20171216 | 12/16/17 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | IW91-20180310 | 03/10/18 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | IW91-20180630 | 06/30/18 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| IW91-20180922 | 09/22/18 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 | |
| IW91-20181215 | 12/15/18 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 | |
| IW91-20190615 | 06/15/19 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 | |
| MTCA Cleanup Level | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 0.2⁽²⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Sample Location | Sample Identification | Sample Date | Sampled By | Analytical Results (µg/L) | | | | |
|----------------------------|-----------------------|-------------|------------|---------------------------|------------------------|----------------------------|------------------------------|-------------------------------|
| | | | | PCE ⁽¹⁾ | TCE ⁽¹⁾ | cis-1-2-DCE ⁽¹⁾ | trans-1-2-DCE ⁽¹⁾ | Vinyl Chloride ⁽¹⁾ |
| Boren Avenue North | | | | | | | | |
| MW04 | MW04-20110527 | 05/27/11 | SoundEarth | <1 | 15 | <1 | <1 | <0.2 |
| | MW04-20111012 | 10/12/11 | SoundEarth | <1 | 15 | <1 | <1 | <0.2 |
| | MW04-20130909 | 09/09/13 | SoundEarth | <1 | 22 | 15 | <1 | <0.2 |
| | MW04-20150508 | 05/08/15 | SoundEarth | 1.4 | 13 | 4.2 | <1 | <0.2 |
| | MW04-20150806 | 08/06/15 | SoundEarth | <1 | 6.9 | 1.0 | <1 | <0.2 |
| | MW04-20151209 | 12/09/15 | SoundEarth | <1 | 9.2 | <1 | <1 | <0.2 |
| | MW04-20160308 | 03/08/16 | SoundEarth | <1 | 9.6 | 1.1 | <1 | <0.2 |
| | MW04-20160713 | 07/13/16 | SoundEarth | 1.0 | 8.9 | 1.3 | <1 | <0.2 |
| | MW04-20161019 | 10/19/16 | SoundEarth | <1 | 5.5 | <1 | <1 | <0.2 |
| | MW04-20170124 | 01/24/17 | SoundEarth | <1 | 9.4 | <1 | <1 | <0.2 |
| | MW04-20170531 | 05/31/17 | SoundEarth | <1 | 9.3 | <1 | <1 | <0.2 |
| | MW04-20170921 | 09/21/17 | SoundEarth | <1 | 5.7 | 3.2 | <1 | <0.2 |
| | MW04-20171214 | 12/14/17 | SoundEarth | <1 | 8.0 | 2.4 | <1 | <0.2 |
| | MW04-20180309 | 03/09/18 | SoundEarth | <1 | 8.6 | <1 | <1 | <0.2 |
| | MW04-20180629 | 06/29/18 | SoundEarth | <1 | 9.4 | <1 | <1 | <0.2 |
| MW04-20180920 | 09/20/18 | SoundEarth | <1 | 9.4 | <1 | <1 | <0.2 | |
| MW04-20181214 | 12/14/18 | SoundEarth | <1 | 10 | <1 | <1 | <0.2 | |
| MW04-20190614 | 06/14/19 | SoundEarth | <1 | 11 | <1 | <1 | <0.2 | |
| MW05 | MW05-20110527 | 05/27/11 | SoundEarth | 39 | 16 | 1.8 | <1 | <0.2 |
| | MW05-20111012 | 10/12/11 | SoundEarth | 29 | 14 | 1.5 | <1 | <0.2 |
| | MW05-20130910 | 09/10/13 | SoundEarth | 21 | 13 | 1.9 | <1 | <0.2 |
| DECOMMISSIONED 2015 | | | | | | | | |
| MW07 | MW07-20110531 | 05/31/11 | SoundEarth | 1.4 | 12 | 2.3 | <1 | <0.2 |
| | MW07-20111012 | 10/12/11 | SoundEarth | 2.2 | 11 | 1.8 | <1 | <0.2 |
| | MW07-20130909 | 09/09/13 | SoundEarth | 1.5 | 33 | 5.4 | <1 | <0.2 |
| | MW07-20150508 | 05/08/15 | SoundEarth | 2.5 | 15 | 4.8 | <1 | <0.2 |
| | MW07-20150805 | 08/05/15 | SoundEarth | 1.8 | 12 | 3.2 | <1 | <0.2 |
| | MW07-20151209 | 12/09/15 | SoundEarth | 2.3 | 14 | 4.1 | <1 | <0.2 |
| | MW07-20160308 | 03/08/16 | SoundEarth | 2.6 | 13 | 3.8 | <1 | <0.2 |
| | MW07-20160713 | 07/13/16 | SoundEarth | 3.0 | 18 | 5.7 | <1 | <0.2 |
| | MW07-20161019 | 10/19/16 | SoundEarth | 3.5 | 13 | 2.3 | <1 | <0.2 |
| | MW07-20170124 | 01/24/17 | SoundEarth | 4.8 | 8.1 | <1 | <1 | <0.2 |
| | MW07-20170531 | 05/31/17 | SoundEarth | 4.7 | 8.6 | <1 | <1 | <0.2 |
| | MW07-20180308 | 03/08/18 | SoundEarth | 2.6 | 11 | 1.1 | <1 | <0.2 |
| | MW07-20180629 | 06/29/18 | SoundEarth | 3.3 | 7.3 | <1 | <1 | <0.2 |
| MW07-20180920 | 09/20/18 | SoundEarth | 2.8 | 6.0 | <1 | <1 | <0.2 | |
| MW07-20181214 | 12/14/18 | SoundEarth | 3.3 | 6.7 | <1 | <1 | <0.2 | |
| MW07-20190614 | 06/14/19 | SoundEarth | 3.9 | 5.9 | <1 | <1 | <0.2 | |
| MTCA Cleanup Level | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 0.2⁽²⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Sample Location | Sample Identification | Sample Date | Sampled By | Analytical Results (µg/L) | | | | |
|---------------------------|-----------------------|-------------|------------|---------------------------|------------------------|----------------------------|------------------------------|-------------------------------|
| | | | | PCE ⁽¹⁾ | TCE ⁽¹⁾ | cis-1-2-DCE ⁽¹⁾ | trans-1-2-DCE ⁽¹⁾ | Vinyl Chloride ⁽¹⁾ |
| MW13 | MW13-20111020 | 10/20/11 | SoundEarth | 5.1 | 1.2 | <1 | <1 | <0.2 |
| | MW13-20130910 | 09/10/13 | SoundEarth | 11 | 1.4 | <1 | <1 | <0.2 |
| | MW13-20150511 | 05/11/15 | SoundEarth | 4.6 ^{cf} | 1.7 ^{cf} | <1 ^{cf} | <1 ^{cf} | <0.2 ^{cf} |
| | MW13-20150805 | 08/05/15 | SoundEarth | 5.4 | 2.3 | <1 | <1 | <0.2 |
| | MW13-20151215 | 12/15/15 | SoundEarth | 5.6 | 1.6 | <1 | <1 | <0.2 |
| | MW13-20160307 | 03/07/16 | SoundEarth | 6.6 | 1.6 | <1 | <1 | <0.2 |
| | MW13-20160712 | 07/12/16 | SoundEarth | 6.5 | 1.6 | <1 | <1 | <0.2 |
| | MW13-20161019 | 10/19/16 | SoundEarth | 10 | 2.2 | <1 | <1 | <0.2 |
| | MW13-20170124 | 01/24/17 | SoundEarth | 6.4 | 1.0 | <1 | <1 | <0.2 |
| | MW13-20170531 | 05/31/17 | SoundEarth | 10 | 1.5 | <1 | <1 | <0.2 |
| | MW13-20170921 | 09/21/17 | SoundEarth | 8.4 | 1.8 | <1 | <1 | <0.2 |
| | MW13-20171214 | 12/14/17 | SoundEarth | 5.2 | 1.4 | <1 | <1 | <0.2 |
| | MW13-20180308 | 03/08/18 | SoundEarth | 8.0 | 1.4 | <1 | <1 | <0.2 |
| | MW13-20180629 | 06/29/18 | SoundEarth | 4.4 | <1 | <1 | <1 | <0.2 |
| MW13-20180920 | 09/20/18 | SoundEarth | 6.5 | 1.3 | <1 | <1 | <0.2 | |
| MW13-20181214 | 12/14/18 | SoundEarth | 7.8 | 1.4 | <1 | <1 | <0.2 | |
| MW13-20190614 | 06/14/19 | SoundEarth | 7.0 | 1.1 | <1 | <1 | <0.2 | |
| MW27 | MW27-20151210 | 12/10/15 | SoundEarth | <1 | 21 | 2.5 | <1 | <0.2 |
| | MW27-20160307 | 03/07/16 | SoundEarth | <1 | 21 | 3.8 | <1 | <0.2 |
| | MW27-20160713 | 07/13/16 | SoundEarth | <1 | 18 | 4.5 | <1 | <0.2 |
| | MW27-20161019 | 10/19/16 | SoundEarth | <1 | 23 | 4.8 | <1 | <0.2 |
| | MW27-20170124 | 01/24/17 | SoundEarth | <1 | 33 | 13 | <1 | <0.2 |
| | MW27-20170531 | 05/31/17 | SoundEarth | <1 | 18 | 5.5 | <1 | <0.2 |
| | MW27-20170921 | 09/21/17 | SoundEarth | <1 | 16 | 4.0 | <1 | <0.2 |
| | MW27-20171214 | 12/14/17 | SoundEarth | <1 | 81 | 4.4 | <1 | <0.2 |
| | MW27-20171229 | 12/29/17 | SoundEarth | <1 | 60 | 3.5 | <1 | <0.2 |
| | MW27-20180308 | 03/08/18 | SoundEarth | <1 | 13 | <1 | <1 | <0.2 |
| | MW27-20180628 | 06/28/18 | SoundEarth | <1 | 37 | 3.4 | <1 | <0.2 |
| MW27-20180920 | 09/20/18 | SoundEarth | <1 | 21 | 3.7 | <1 | <0.2 | |
| MW27-20181214 | 12/14/18 | SoundEarth | <1 | 17 | 4.3 | <1 | <0.2 | |
| MW27-20190614 | 06/14/19 | SoundEarth | <1 | 14 | 2.3 | <1 | <0.2 | |
| Terry Avenue North | | | | | | | | |
| MW15 | MW15-20121211 | 12/11/12 | SoundEarth | <1 | 8.2 | <1 | <1 | <0.2 |
| | MW15-20121221 | 12/21/12 | SoundEarth | <1 | 7.2 | <1 | <1 | <0.2 |
| | MW15-20130910 | 09/10/13 | SoundEarth | <1 | 8.6 | <1 | <1 | <0.2 |
| | MW15-20150508 | 05/08/15 | SoundEarth | <1 | 6.5 | <1 | <1 | <0.2 |
| | MW15-20150805 | 08/05/15 | SoundEarth | <1 | 5.3 | <1 | <1 | <0.2 |
| | MW15-20151209 | 12/09/15 | SoundEarth | <1 | 6.8 | <1 | <1 | <0.2 |
| | MW15-20160308 | 03/08/16 | SoundEarth | <1 | 6.7 | <1 | <1 | <0.2 |
| | MW15-20160713 | 07/13/16 | SoundEarth | <1 | 5.8 | <1 | <1 | <0.2 |
| | MW15-20161018 | 10/18/16 | SoundEarth | <1 | 5.3 | <1 | <1 | <0.2 |
| | MW15-20170125 | 01/25/17 | SoundEarth | <1 | 7.4 | <1 | <1 | <0.2 |
| | MW15-20170531 | 05/31/17 | SoundEarth | <1 | 7.9 | <1 | <1 | <0.2 |
| | MW15-20170922 | 09/22/17 | SoundEarth | <1 | 3.9 | <1 | <1 | <0.2 |
| | MW15-20171215 | 12/15/17 | SoundEarth | <1 | 3.0 | <1 | <1 | <0.2 |
| | MW15-20180309 | 03/09/18 | SoundEarth | <1 | 3.3 | <1 | <1 | <0.2 |
| | MW15-20180629 | 06/29/18 | SoundEarth | <1 | 5.1 | <1 | <1 | <0.2 |
| MW15-20180920 | 09/20/18 | SoundEarth | <1 | 6.9 | <1 | <1 | <0.2 | |
| MW15-20181214 | 12/14/18 | SoundEarth | <1 | 7.0 | <1 | <1 | <0.2 | |
| MW15-20190613 | 06/13/19 | SoundEarth | <1 | 6.8 | <1 | <1 | <0.2 | |
| MTCA Cleanup Level | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 0.2⁽²⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Sample Location | Sample Identification | Sample Date | Sampled By | Analytical Results (µg/L) | | | | |
|------------------------------|-----------------------|-------------|------------|---------------------------|------------------------|----------------------------|------------------------------|-------------------------------|
| | | | | PCE ⁽¹⁾ | TCE ⁽¹⁾ | cis-1-2-DCE ⁽¹⁾ | trans-1-2-DCE ⁽¹⁾ | Vinyl Chloride ⁽¹⁾ |
| Thomas Street | | | | | | | | |
| MW14 | MW14-20111020 | 10/20/11 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW14-20130911 | 09/11/13 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| DECOMMISSIONED 2013 | | | | | | | | |
| MW16 | MW16-20121211 | 12/11/12 | SoundEarth | 16 | 12 | 220 | <1 | 0.69 |
| | MW16-20130911 | 09/11/13 | SoundEarth | 6.4 | 5.0 | 610 | <1 | 1.9 |
| | MW16-20150508 | 05/08/15 | SoundEarth | 7.5 | 7.6 | 640 | <1 | 2.8 |
| | MW16-20150805 | 08/05/15 | SoundEarth | 7.8 | 7.3 | 550 | <1 | 2.4 |
| | MW16-20151210 | 12/10/15 | SoundEarth | 5.3 | 4.5 | 510 | <1 | 3.2 |
| | MW16-20160308 | 03/08/16 | SoundEarth | 3.7 | 2.0 | 190 | <1 | 1.3 |
| | MW16-20160712 | 07/12/16 | SoundEarth | <1 | <1 | 160 | <1 | 2.0 |
| | MW16-20161019 | 10/19/16 | SoundEarth | 5.0 | 5.4 | 170 | <1 | 1.2 |
| | MW16-20170125 | 01/25/17 | SoundEarth | 6.4 | 6.8 | 220 | <1 | 0.98 |
| | MW16-20170531 | 05/31/17 | SoundEarth | 5.7 | 4.4 | 100 | <1 | 0.49 |
| | MW16-20170922 | 09/22/17 | SoundEarth | 5.4 | 5.2 | 78 | <1 | 0.40 |
| MW16-20171229 | 12/29/17 | SoundEarth | 7.2 | 6.4 | 150 | <1 | 0.89 | |
| MW16-20180309 | 03/09/18 | SoundEarth | 7.3 | 5.5 | 80 | <1 | 0.35 | |
| WELL DAMAGED 2018 | | | | | | | | |
| MW28 | MW28-20190613 | 06/13/19 | SoundEarth | 9.0 | 5.7 | 80 | <1 | 0.35 |
| Fairview Avenue North | | | | | | | | |
| MW-C | MW-C-20130911 | 09/11/13 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| Harrison Street | | | | | | | | |
| MW01 | MW01-20110525 | 05/25/11 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW01-20111011 | 10/11/11 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW01-20130910 | 09/10/13 | SoundEarth | <1 | 1.4 | <1 | <1 | <0.2 |
| | MW01-20150806 | 08/06/15 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW01-20160308 | 03/08/16 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW01-20160712 | 07/12/16 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW01-20161018 | 10/18/16 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW01-20170124 | 01/24/17 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW01-20170531 | 05/31/17 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW01-20171214 | 12/14/17 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW01-20180309 | 03/09/18 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW01-20180628 | 06/28/18 | SoundEarth | <1 | 1.1 | <1 | <1 | <0.2 |
| | MW01-20180920 | 09/20/18 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| MW01-20181214 | 12/14/18 | SoundEarth | <1 | 1.1 | <1 | <1 | <0.2 | |
| MW01-20190614 | 06/14/19 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 | |
| MW02 | MW02-20110525 | 05/25/11 | SoundEarth | <1 | 5.2 | <1 | <1 | <0.2 |
| | MW02-20111011 | 10/11/11 | SoundEarth | <1 | 3.0 | <1 | <1 | <0.2 |
| | MW02-20130911 | 09/11/13 | SoundEarth | <1 | 3.6 | <1 | <1 | <0.2 |
| DECOMMISSIONED 2015 | | | | | | | | |
| MW03 | MW03-20110527 | 05/27/11 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW03-20111011 | 10/11/11 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | MW03-20130911 | 09/11/13 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| DECOMMISSIONED 2015 | | | | | | | | |
| MTCA Cleanup Level | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 0.2⁽²⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Sample Location | Sample Identification | Sample Date | Sampled By | Analytical Results (µg/L) | | | | |
|---------------------------------|-----------------------|-------------------------|------------|---------------------------|------------------------|----------------------------|------------------------------|-------------------------------|
| | | | | PCE ⁽¹⁾ | TCE ⁽¹⁾ | cis-1-2-DCE ⁽¹⁾ | trans-1-2-DCE ⁽¹⁾ | Vinyl Chloride ⁽¹⁾ |
| MW26 | MW26-20151210 | 12/10/15 | SoundEarth | <1 | 11 | <1 | <1 | <0.2 |
| | MW26-20160307 | 03/07/16 | SoundEarth | <1 | 10 | <1 | <1 | <0.2 |
| | MW26-20160712 | 07/12/16 | SoundEarth | <1 | 12 | <1 | <1 | <0.2 |
| | MW26-20161018 | 10/18/16 | SoundEarth | <1 | 12 | <1 | <1 | <0.2 |
| | MW26-20170124 | 01/24/17 | SoundEarth | <1 | 13 | <1 | <1 | <0.2 |
| | MW26-20170531 | 05/31/17 | SoundEarth | <1 | 7.9 | <1 | <1 | <0.2 |
| | MW26-20170921 | 09/21/17 | SoundEarth | <1 | 7.1 | <1 | <1 | <0.2 |
| | MW26-20171214 | 12/14/17 | SoundEarth | <1 | 15 | 1.4 | <1 | <0.2 |
| | MW26-20180309 | 03/09/18 | SoundEarth | <1 | 6.0 | <1 | <1 | <0.2 |
| | MW26-20180628 | 06/28/18 | SoundEarth | <1 | 18 | <1 | <1 | <0.2 |
| MW26-20180920 | 09/20/18 | SoundEarth | <1 | 18 | <1 | <1 | <0.2 | |
| MW26-20181214 | 12/14/18 | SoundEarth | <1 | 20 | <1 | <1 | <0.2 | |
| MW26-20190614 | 06/14/19 | SoundEarth | <1 | 20 | <1 | <1 | <0.2 | |
| SMW06 | SMW06-20130910 | 09/10/13 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| Westlake Avenue North | | | | | | | | |
| SMW09 | SMW09-20130910 | 09/10/13 | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| North-Adjoining Property | | | | | | | | |
| SLU-MW01 | MW01-20120229 | 02/29/12 ⁽⁴⁾ | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | DECOMMISSIONED 2013 | | | | | | | |
| SLU-MW02 | MW02-20120229 | 02/29/12 ⁽⁴⁾ | SoundEarth | <1 | <1 | <1 | <1 | <0.2 |
| | DECOMMISSIONED 2013 | | | | | | | |
| MTCA Cleanup Level | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 0.2⁽²⁾ |

NOTES:

Red denotes concentrations exceeding the MTCA Method cleanup level for groundwater.

⁽¹⁾ Analyzed by US Environmental Protection Agency Method 8260C, 8021B, or 8240.

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

⁽³⁾ MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARHome.aspx>>.

⁽⁴⁾ Sample data compiled from reports on file at the Washington State Department of Ecology.

Laboratory Notes:

^(d) The sample was centrifuged prior to analysis.

^(e) Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

* The sample was collected with a passive diffusion bag.

< = not detected at a concentration exceeding laboratory reporting limit

µg/L = micrograms per liter

CLARC = Cleanup Levels and Risk Calculations

CVOC = chlorinated volatile organic compound

DCE = dichloroethene

MTCA = Washington State Model Toxics Control Act

PCE = tetrachloroethene

SoundEarth = SoundEarth Strategies, Inc.

TCE = trichloroethene

WAC = Washington Administrative Code

Table 2A
Groundwater CVOCs Results Summary
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

| Groundwater CVOCs Analytical Results ⁽¹⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|------|------|--------------------|------|------|------|--------------------|------|------|------|--------------------|------|------|------|--------------------|--------------------|------|------|---------------------|---------------------|---------------|------|--------------------|----|-----|-----|--------------------|----|-----|-----|--------------------|----|--|--|--|--|
| Sampling Event | On-Property Wells | | | | | | | | | | | | | | | | Boren Avenue North | | | | Terry Avenue North | Thomas Street | | Harrison Street | | | | | | | | | | | | | |
| | MW17 | MW18 | MW19 | MW20 | MW21 | MW22 | MW23 | MW24 | MW25 | IW04 | IW06 | IW50 | IW61 | IW91 | MW04 | MW07 | MW13 | MW27 | MW15 | MW16 ⁽³⁾ | MW28 ⁽³⁾ | MW01 | MW26 | | | | | | | | | | | | | | |
| Year | Quarter | PCE | TCE | DCE ⁽²⁾ | VC | PCE | TCE | DCE ⁽²⁾ | VC | PCE | TCE | DCE ⁽²⁾ | VC | PCE | TCE | DCE ⁽²⁾ | VC | PCE | TCE | DCE ⁽²⁾ | VC | PCE | TCE | DCE ⁽²⁾ | VC | PCE | TCE | DCE ⁽²⁾ | VC | PCE | TCE | DCE ⁽²⁾ | VC | | | | |
| 2015 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2016 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2017 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2018 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2019 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NOTES:

- Denotes CVOC concentration does not exceed the Applicable MTCA cleanup level.
- Denotes CVOC concentration exceeds the applicable MTCA cleanup level.
- Denotes well not sampled and/or inaccessible.

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

No trans-1,2-DCE has been detected above the reporting limit for samples collected at this site.

⁽¹⁾Samples analyzed by EPA Method 8260C.

⁽²⁾DCE refers to the greater concentration of cis-1,2-DCE.

⁽³⁾Monitoring well MW16 destroyed during ROW construction in 2018, and replacement well MW28 installed.

- CVOC = chlorinated volatile organic compound
- DCE = dichloroethene
- EPA = US Environmental Protection Agency
- MTCA = Washington State Model Toxics Control Act
- PCE = tetrachloroethene
- ROW = right-of-way
- TCE = trichloroethene
- VC = vinyl chloride
- VOC = volatile organic compound

ATTACHMENT A
LABORATORY ANALYTICAL REPORTS

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

June 26, 2019

Tom Cammarata, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Cammarata:

Included are the results from the testing of material submitted on June 14, 2019 from the SOU_0731-004-05_ 20190614, F&BI 906291 project. There are 22 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: Logan Schumacher
SOU0626R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 14, 2019 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-05_20190614, F&BI 906291 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 906291 -01 | MW28-20190913 |
| 906291 -02 | MW15-20190913 |
| 906291 -03 | MW27-20190914 |
| 906291 -04 | MW13-20190914 |
| 906291 -05 | MW01-20190914 |
| 906291 -06 | MW26-20190914 |
| 906291 -07 | MW07-20190914 |
| 906291 -08 | MW04-20190914 |

Samples MW28-20190913, MW26-20190914, MW07-20190914, and MW04-20190914 were sent to Fremont Analytical for nitrate, sulfate, alkalinity, dissolved gasses, and ferrous iron analysis. In addition, samples MW26-20190914 and MW07-20190914 were sent to Fremont for TOC analysis. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/14/19

Project: SOU_0731-004-05_ 20190614, F&BI 906291

Date Extracted: 06/17/19

Date Analyzed: 06/17/19

**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 52-124) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|---|
| MW28-20190913 906291-01 | <1 | <1 | <1 | <3 | 160 | 104 |
| MW15-20190913 906291-02 | <1 | <1 | <1 | <3 | <100 | 100 |
| MW27-20190914 906291-03 | <1 | <1 | <1 | <3 | <100 | 101 |
| MW13-20190914 906291-04 | <1 | <1 | <1 | <3 | <100 | 101 |
| MW01-20190914 906291-05 | <1 | <1 | <1 | <3 | <100 | 101 |
| MW26-20190914 906291-06 | <1 | <1 | <1 | <3 | <100 | 102 |
| MW07-20190914 906291-07 | <1 | <1 | <1 | <3 | <100 | 104 |
| MW04-20190914 906291-08 | <1 | <1 | <1 | <3 | <100 | 103 |
| Method Blank 09-1404 MB | <1 | <1 | <1 | <3 | <100 | 113 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/14/19

Project: SOU_0731-004-05_ 20190614, F&BI 906291

Date Extracted: 06/17/19

Date Analyzed: 06/17/19

**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)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> (% Recovery) (Limit 41-152) |
|-----------------------------------|--|---|--|
| MW28-20190913 906291-01 | 140 x | <250 | 104 |
| MW15-20190913 906291-02 | <50 | <250 | 93 |
| MW27-20190914 906291-03 | <50 | <250 | 93 |
| MW13-20190914 906291-04 | <50 | <250 | 89 |
| MW01-20190914 906291-05 | <50 | <250 | 95 |
| MW26-20190914 906291-06 | <50 | <250 | 101 |
| MW07-20190914 906291-07 | <50 | <250 | 110 |
| MW04-20190914 906291-08 | <50 | <250 | 102 |
| Method Blank 09-1421 MB | <50 | <250 | 98 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|---------------|-------------|--------------------------|
| Client ID: | MW28-20190913 | Client: | SoundEarth Strategies |
| Date Received: | 06/14/19 | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/18/19 | Lab ID: | 906291-01 x10 |
| Date Analyzed: | 06/18/19 | Data File: | 906291-01 x10.123 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | 1,100 |
| Manganese | 1,140 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|---------------|-------------|--------------------------|
| Client ID: | MW26-20190914 | Client: | SoundEarth Strategies |
| Date Received: | 06/14/19 | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/18/19 | Lab ID: | 906291-06 |
| Date Analyzed: | 06/19/19 | Data File: | 906291-06.056 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | 290 |
| Manganese | 62.1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|---------------|-------------|--------------------------|
| Client ID: | MW07-20190914 | Client: | SoundEarth Strategies |
| Date Received: | 06/14/19 | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/18/19 | Lab ID: | 906291-07 |
| Date Analyzed: | 06/19/19 | Data File: | 906291-07.045 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | 225 |
| Manganese | 9.26 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|---------------|-------------|--------------------------|
| Client ID: | MW04-20190914 | Client: | SoundEarth Strategies |
| Date Received: | 06/14/19 | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/18/19 | Lab ID: | 906291-08 |
| Date Analyzed: | 06/19/19 | Data File: | 906291-08.057 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | 327 |
| Manganese | 15.9 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|--------------|-------------|--------------------------|
| Client ID: | Method Blank | Client: | SoundEarth Strategies |
| Date Received: | NA | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/18/19 | Lab ID: | I9-375 mb |
| Date Analyzed: | 06/18/19 | Data File: | I9-375 mb.095 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | <50 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW28-20190913 | Client: | SoundEarth Strategies |
| Date Received: | 06/14/19 | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/19/19 | Lab ID: | 906291-01 |
| Date Analyzed: | 06/19/19 | Data File: | 061929.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 57 | 121 |
| Toluene-d8 | 98 | 63 | 127 |
| 4-Bromofluorobenzene | 98 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | 0.35 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | 1.5 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 80 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | 5.7 |
| Tetrachloroethene | 9.0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW15-20190913 | Client: | SoundEarth Strategies |
| Date Received: | 06/14/19 | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/19/19 | Lab ID: | 906291-02 |
| Date Analyzed: | 06/19/19 | Data File: | 061930.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 57 | 121 |
| Toluene-d8 | 98 | 63 | 127 |
| 4-Bromofluorobenzene | 98 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | 6.8 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW27-20190914 | Client: | SoundEarth Strategies |
| Date Received: | 06/14/19 | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/19/19 | Lab ID: | 906291-03 |
| Date Analyzed: | 06/19/19 | Data File: | 061931.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 57 | 121 |
| Toluene-d8 | 96 | 63 | 127 |
| 4-Bromofluorobenzene | 96 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 2.3 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | 14 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW13-20190914 | Client: | SoundEarth Strategies |
| Date Received: | 06/14/19 | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/19/19 | Lab ID: | 906291-04 |
| Date Analyzed: | 06/19/19 | Data File: | 061932.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 101 | 57 | 121 |
| Toluene-d8 | 97 | 63 | 127 |
| 4-Bromofluorobenzene | 98 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | 1.1 |
| Tetrachloroethene | 7.0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW01-20190914 | Client: | SoundEarth Strategies |
| Date Received: | 06/14/19 | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/19/19 | Lab ID: | 906291-05 |
| Date Analyzed: | 06/19/19 | Data File: | 061933.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 101 | 57 | 121 |
| Toluene-d8 | 98 | 63 | 127 |
| 4-Bromofluorobenzene | 98 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW26-20190914 | Client: | SoundEarth Strategies |
| Date Received: | 06/14/19 | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/19/19 | Lab ID: | 906291-06 |
| Date Analyzed: | 06/19/19 | Data File: | 061934.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 57 | 121 |
| Toluene-d8 | 97 | 63 | 127 |
| 4-Bromofluorobenzene | 97 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | 20 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW07-20190914 | Client: | SoundEarth Strategies |
| Date Received: | 06/14/19 | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/19/19 | Lab ID: | 906291-07 |
| Date Analyzed: | 06/19/19 | Data File: | 061935.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 57 | 121 |
| Toluene-d8 | 97 | 63 | 127 |
| 4-Bromofluorobenzene | 98 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | 5.9 |
| Tetrachloroethene | 3.9 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW04-20190914 | Client: | SoundEarth Strategies |
| Date Received: | 06/14/19 | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/19/19 | Lab ID: | 906291-08 |
| Date Analyzed: | 06/19/19 | Data File: | 061936.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 57 | 121 |
| Toluene-d8 | 97 | 63 | 127 |
| 4-Bromofluorobenzene | 97 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | 11 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|----------------|-------------|--------------------------|
| Client Sample ID: | Method Blank | Client: | SoundEarth Strategies |
| Date Received: | Not Applicable | Project: | SOU_0731-004-05_20190614 |
| Date Extracted: | 06/19/19 | Lab ID: | 09-1432 mb |
| Date Analyzed: | 06/19/19 | Data File: | 061928.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 57 | 121 |
| Toluene-d8 | 98 | 63 | 127 |
| 4-Bromofluorobenzene | 97 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/14/19

Project: SOU_0731-004-05_ 20190614, F&BI 906291

**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: 906291-01 (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) | 160 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------|--------------------|----------------|----------------------------|------------------------|
| Benzene | ug/L (ppb) | 50 | 108 | 65-118 |
| Toluene | ug/L (ppb) | 50 | 114 | 72-122 |
| Ethylbenzene | ug/L (ppb) | 50 | 112 | 73-126 |
| Xylenes | ug/L (ppb) | 150 | 110 | 74-118 |
| Gasoline | ug/L (ppb) | 1,000 | 82 | 69-134 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/14/19

Project: SOU_0731-004-05_ 20190614, F&BI 906291

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

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 88 | 100 | 63-142 | 13 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/14/19

Project: SOU_0731-004-05_ 20190614, F&BI 906291

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

Laboratory Code: 906321-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|-----------------|-------------|---------------|---------------------|----------------------|---------------------|----------------|
| Iron | ug/L (ppb) | 100 | 152 | 89 | 85 | 70-130 | 5 |
| Manganese | ug/L (ppb) | 20 | 30.6 | 101 | 95 | 70-130 | 6 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|-----------------|-------------|----------------------|---------------------|
| Iron | ug/L (ppb) | 100 | 99 | 85-115 |
| Manganese | ug/L (ppb) | 20 | 95 | 85-115 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/14/19

Project: SOU_0731-004-05_ 20190614, F&BI 906291

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

Laboratory Code: 906291-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance |
|--------------------------|--------------------|----------------|------------------|----------------|------------|
| | | | | Recovery MS | Criteria |
| Vinyl chloride | ug/L (ppb) | 50 | 0.35 | 119 | 36-166 |
| Chloroethane | ug/L (ppb) | 50 | <1 | 110 | 46-160 |
| 1,1-Dichloroethene | ug/L (ppb) | 50 | 1.5 | 108 | 60-136 |
| Methylene chloride | ug/L (ppb) | 50 | <5 | 109 | 67-132 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 50 | <1 | 110 | 72-129 |
| 1,1-Dichloroethane | ug/L (ppb) | 50 | <1 | 105 | 70-128 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 50 | 80 | 119 b | 71-127 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 50 | <1 | 96 | 48-149 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 50 | <1 | 110 | 60-146 |
| Trichloroethene | ug/L (ppb) | 50 | 5.7 | 98 | 66-135 |
| Tetrachloroethene | ug/L (ppb) | 50 | 9.0 | 101 | 10-226 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | Percent | Acceptance Criteria | RPD (Limit 20) |
|--------------------------|--------------------|----------------|-----------------|------------------|------------------------|-------------------|
| | | | Recovery LCS | Recovery LCSD | | |
| Vinyl chloride | ug/L (ppb) | 50 | 113 | 107 | 50-154 | 5 |
| Chloroethane | ug/L (ppb) | 50 | 105 | 100 | 58-146 | 5 |
| 1,1-Dichloroethene | ug/L (ppb) | 50 | 103 | 102 | 67-136 | 1 |
| Methylene chloride | ug/L (ppb) | 50 | 102 | 100 | 39-148 | 2 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 50 | 106 | 101 | 68-128 | 5 |
| 1,1-Dichloroethane | ug/L (ppb) | 50 | 102 | 100 | 79-121 | 2 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 50 | 107 | 105 | 80-123 | 2 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 50 | 96 | 100 | 73-132 | 4 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 50 | 106 | 104 | 81-125 | 2 |
| Trichloroethene | ug/L (ppb) | 50 | 98 | 98 | 79-113 | 0 |
| Tetrachloroethene | ug/L (ppb) | 50 | 104 | 103 | 76-121 | 1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

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



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

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 906291
Work Order Number: 1906196

June 24, 2019

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 6/17/2019 for the analyses presented in the following report.

Dissolved Gases by RSK-175
Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)

CLIENT: Friedman & Bruya
Project: 906291
Work Order: 1906196

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|----------------------|-------------------------|----------------------------|---------------------------|
| 1906196-001 | MW28-20190613 | 06/13/2019 3:35 PM | 06/17/2019 1:45 PM |

CLIENT: Friedman & Bruya

Project: 906291

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 (<20%RSD, <20% Drift or minimum RRF)
- 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
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Friedman & Bruya

Collection Date: 6/13/2019 3:35:00 PM

Project: 906291

Lab ID: 1906196-001

Matrix: Water

Client Sample ID: MW28-20190613

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R52203 Analyst: SG

| | | | | | | |
|---------|--------|---------|--|------|---|----------------------|
| Methane | 0.0153 | 0.00863 | | mg/L | 1 | 6/19/2019 2:27:00 PM |
| Ethene | ND | 0.0151 | | mg/L | 1 | 6/19/2019 2:27:00 PM |
| Ethane | ND | 0.0162 | | mg/L | 1 | 6/19/2019 2:27:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 24947 Analyst: SS

| | | | | | | |
|----------------|------|-------|----|------|---|----------------------|
| Nitrate (as N) | ND | 0.500 | DH | mg/L | 5 | 6/18/2019 2:57:00 PM |
| Sulfate | 2.10 | 1.50 | D | mg/L | 5 | 6/18/2019 2:57:00 PM |

NOTES:

Diluted due to matrix.

Total Alkalinity by SM 2320B

Batch ID: R52247 Analyst: WF

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 424 | 2.50 | | mg/L | 1 | 6/21/2019 1:25:44 PM |
|---|-----|------|--|------|---|----------------------|

Ferrous Iron by SM3500-Fe B

Batch ID: R52165 Analyst: GM

| | | | | | | |
|--------------|------|--------|---|------|---|----------------------|
| Ferrous Iron | 1.02 | 0.0500 | H | mg/L | 1 | 6/19/2019 5:00:00 PM |
|--------------|------|--------|---|------|---|----------------------|

Work Order: 1906196
CLIENT: Friedman & Bruya
Project: 906291

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-R52247 | SampType: MBLK | Units: mg/L | Prep Date: 6/21/2019 | RunNo: 52247 | | | | | | | |
| Client ID: MBLKW | Batch ID: R52247 | | Analysis Date: 6/21/2019 | SeqNo: 1031932 | | | | | | | |
| 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-R52247 | SampType: LCS | Units: mg/L | Prep Date: 6/21/2019 | RunNo: 52247 | | | | | | | |
| Client ID: LCSW | Batch ID: R52247 | | Analysis Date: 6/21/2019 | SeqNo: 1031933 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 104 | 2.50 | 100.0 | 0 | 104 | 80 | 120 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906195-001BDUP | SampType: DUP | Units: mg/L | Prep Date: 6/21/2019 | RunNo: 52247 | | | | | | | |
| Client ID: BATCH | Batch ID: R52247 | | Analysis Date: 6/21/2019 | SeqNo: 1031935 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 618 | 2.50 | | | | | | 611.0 | 1.06 | 20 | |

Work Order: 1906196
CLIENT: Friedman & Bruya
Project: 906291

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-R52165 | SampType: MBLK | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: MBLKW | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1029999 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron ND 0.0500

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-R52165 | SampType: LCS | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: LCSW | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1030000 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron 0.406 0.0500 0.4000 0 101 80 120

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906196-001ADUP | SampType: DUP | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: MW28-20190613 | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1030007 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron 0.922 0.0500 1.023 10.4 20 H

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906196-001AMS | SampType: MS | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: MW28-20190613 | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1030008 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron 1.29 0.0500 0.4000 1.023 66.9 80 120 SH

NOTES:

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

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906196-001AMSD | SampType: MSD | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: MW28-20190613 | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1030009 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron 1.29 0.0500 0.4000 1.023 67.5 80 120 1.291 0.182 20 SH

NOTES:

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

Work Order: 1906196
 CLIENT: Friedman & Bruya
 Project: 906291

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

| Sample ID: MB-24947 | SampType: MBLK | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|----------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: 24947 | | Analysis Date: 6/17/2019 | SeqNo: 1029908 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | |
|----------------|----|-------|
| Nitrate (as N) | ND | 0.100 |
| Sulfate | ND | 0.300 |

| Sample ID: LCS1-24947 | SampType: LCS | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | Analysis Date: 6/17/2019 | SeqNo: 1029909 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|
| Nitrate (as N) | 0.739 | 0.100 | 0.7500 | 0 | 98.5 | 90 | 110 |
| Sulfate | 3.65 | 0.300 | 3.750 | 0 | 97.4 | 90 | 110 |

| Sample ID: LCS2-24947 | SampType: LCS | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | Analysis Date: 6/18/2019 | SeqNo: 1029925 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|
| Nitrate (as N) | 0.725 | 0.100 | 0.7500 | 0 | 96.7 | 90 | 110 |
| Sulfate | 3.57 | 0.300 | 3.750 | 0 | 95.2 | 90 | 110 |

| Sample ID: LCS3-24947 | SampType: LCS | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | Analysis Date: 6/18/2019 | SeqNo: 1029926 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|
| Nitrate (as N) | 0.725 | 0.100 | 0.7500 | 0 | 96.7 | 90 | 110 |
| Sulfate | 3.55 | 0.300 | 3.750 | 0 | 94.6 | 90 | 110 |

| Sample ID: LCS4-24947 | SampType: LCS | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | Analysis Date: 6/18/2019 | SeqNo: 1029927 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|
| Nitrate (as N) | 0.732 | 0.100 | 0.7500 | 0 | 97.6 | 90 | 110 |
|----------------|-------|-------|--------|---|------|----|-----|

Work Order: 1906196
 CLIENT: Friedman & Bruya
 Project: 906291

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

| Sample ID: LCS4-24947 | SampType: LCS | Units: mg/L | | | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | |
|------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | | | Analysis Date: 6/18/2019 | SeqNo: 1029927 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfate 3.73 0.300 3.750 0 99.4 90 110

| Sample ID: 1906195-001BDUP | SampType: DUP | Units: mg/L | | | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 24947 | | | | Analysis Date: 6/18/2019 | SeqNo: 1029933 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrate (as N) ND 0.100 0 20 H
 Sulfate 0.749 0.300 0.7590 1.33 20

| Sample ID: 1906195-001BMS | SampType: MS | Units: mg/L | | | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 24947 | | | | Analysis Date: 6/18/2019 | SeqNo: 1029934 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrate (as N) 0.787 0.100 0.7500 0.09000 92.9 80 120 H
 Sulfate 4.20 0.300 3.750 0.7590 91.8 80 120

| Sample ID: 1906195-001BMSD | SampType: MSD | Units: mg/L | | | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 24947 | | | | Analysis Date: 6/18/2019 | SeqNo: 1029935 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrate (as N) 0.784 0.100 0.7500 0.09000 92.5 80 120 0.7870 0.382 20 H
 Sulfate 4.18 0.300 3.750 0.7590 91.3 80 120 4.203 0.525 20

Work Order: 1906196
 CLIENT: Friedman & Bruya
 Project: 906291

QC SUMMARY REPORT
Dissolved Gases by RSK-175

| Sample ID: LCS-R52203 | SampType: LCS | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52203 | | | | | | | |
|------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: R52203 | | Analysis Date: 6/19/2019 | SeqNo: 1030678 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|------|----|-----|--|--|--|--|
| Methane | 1,020 | 0.00863 | 1,000 | 0 | 102 | 70 | 130 | | | | |
| Ethene | 976 | 0.0151 | 1,000 | 0 | 97.6 | 70 | 130 | | | | |
| Ethane | 973 | 0.0162 | 1,000 | 0 | 97.3 | 70 | 130 | | | | |

| Sample ID: MB-R52203 | SampType: MBLK | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52203 | | | | | | | |
|-----------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: R52203 | | Analysis Date: 6/19/2019 | SeqNo: 1030679 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00863 | | | | | | | | | |
| Ethene | ND | 0.0151 | | | | | | | | | |
| Ethane | ND | 0.0162 | | | | | | | | | |

| Sample ID: 1906152-001AREP | SampType: REP | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52203 | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: R52203 | | Analysis Date: 6/19/2019 | SeqNo: 1030653 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------|------|-------|--|--|--|--|--|-------|------|----|----|
| Methane | 4.81 | 0.173 | | | | | | 4.601 | 4.43 | 30 | DE |
| Ethene | ND | 0.303 | | | | | | 0 | | 30 | D |
| Ethane | ND | 0.324 | | | | | | 0 | | 30 | D |

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument.

Client Name: **FB**
 Logged by: **Clare Griggs**

Work Order Number: **1906196**
 Date Received: **6/17/2019 1:45:00 PM**

Chain of Custody

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

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C * Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

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

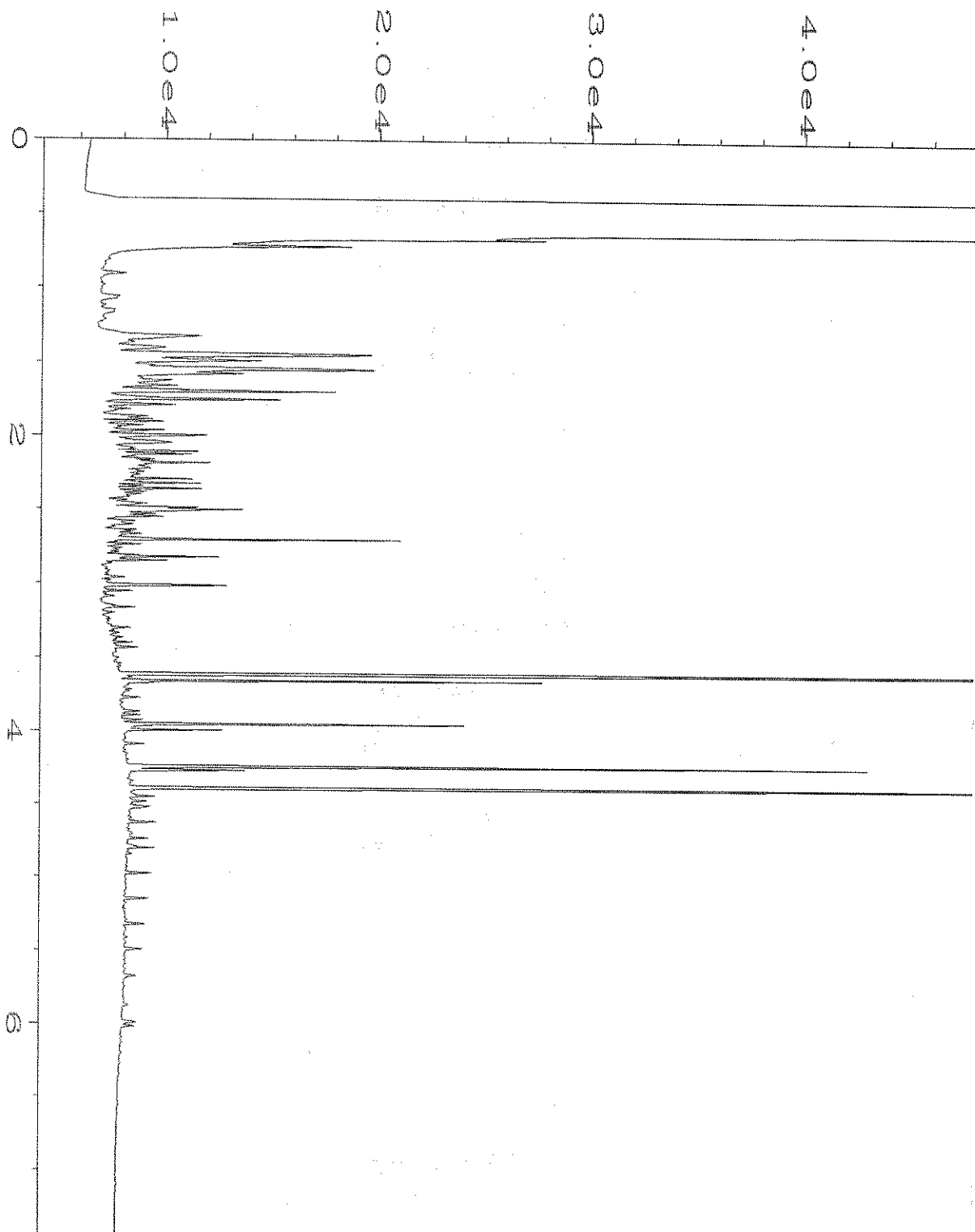
| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/>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

19. Additional remarks:

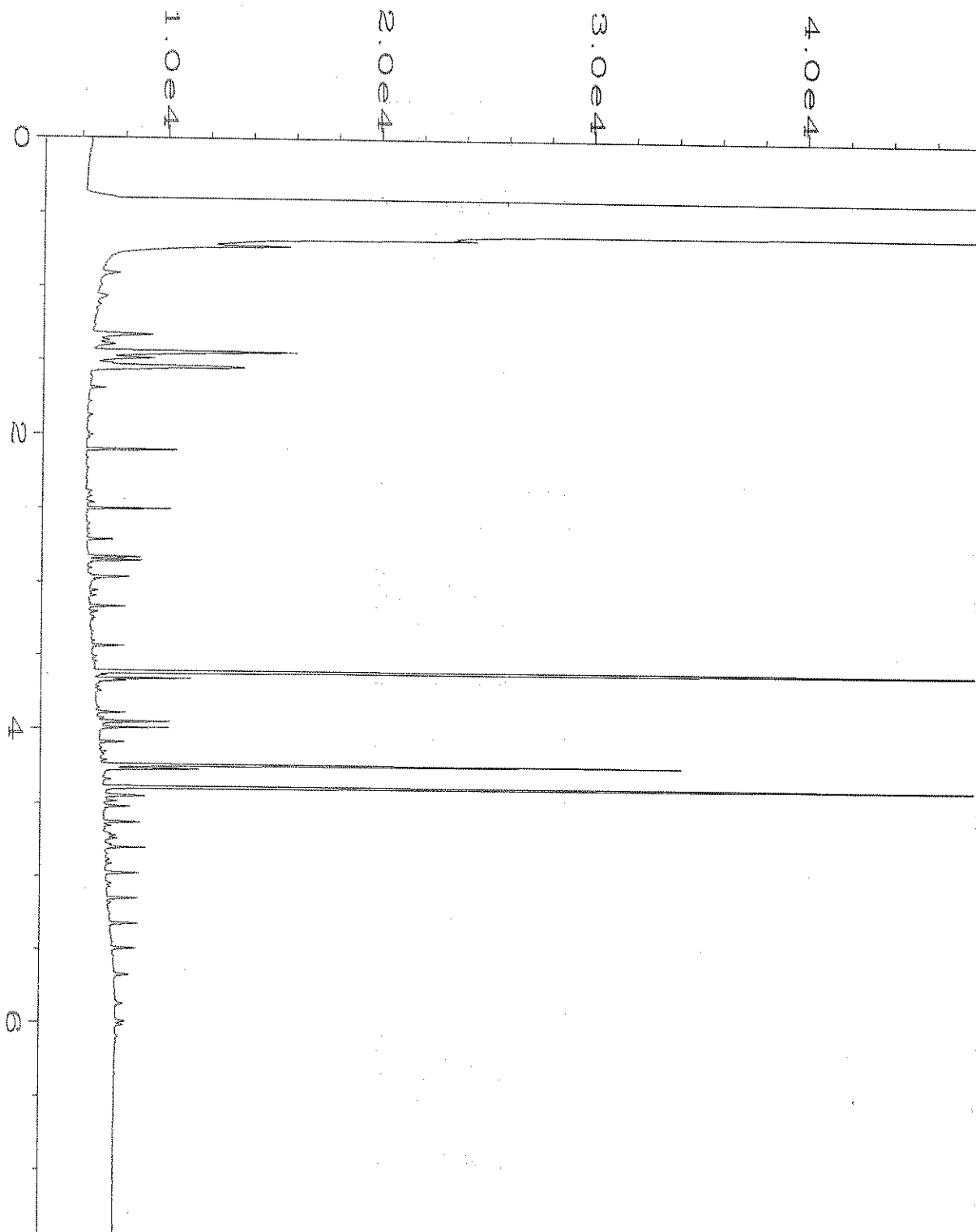
Item Information

| Item # | Temp °C |
|--------|---------|
| Cooler | 9.6 |
| Sample | 8.7 |

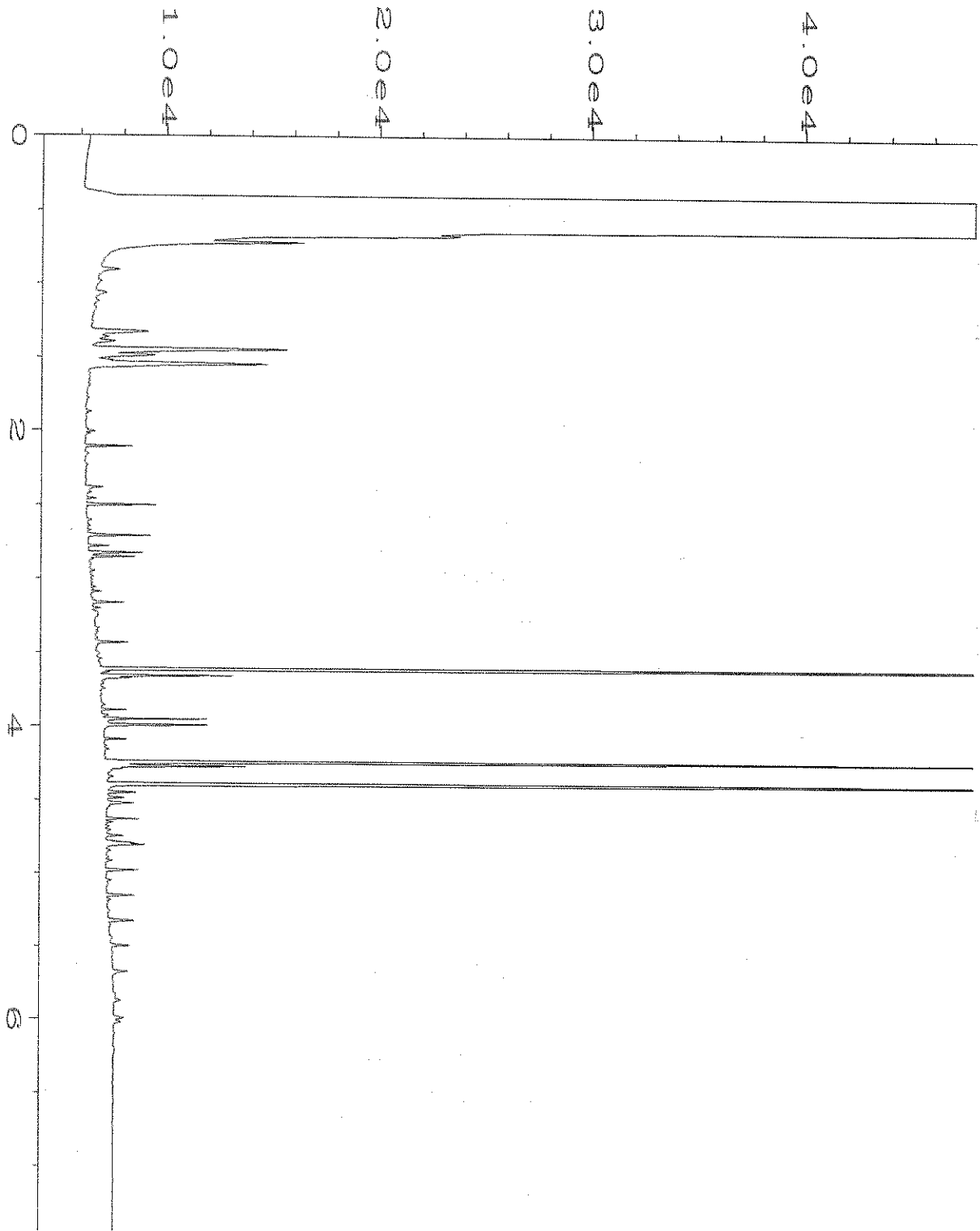
* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



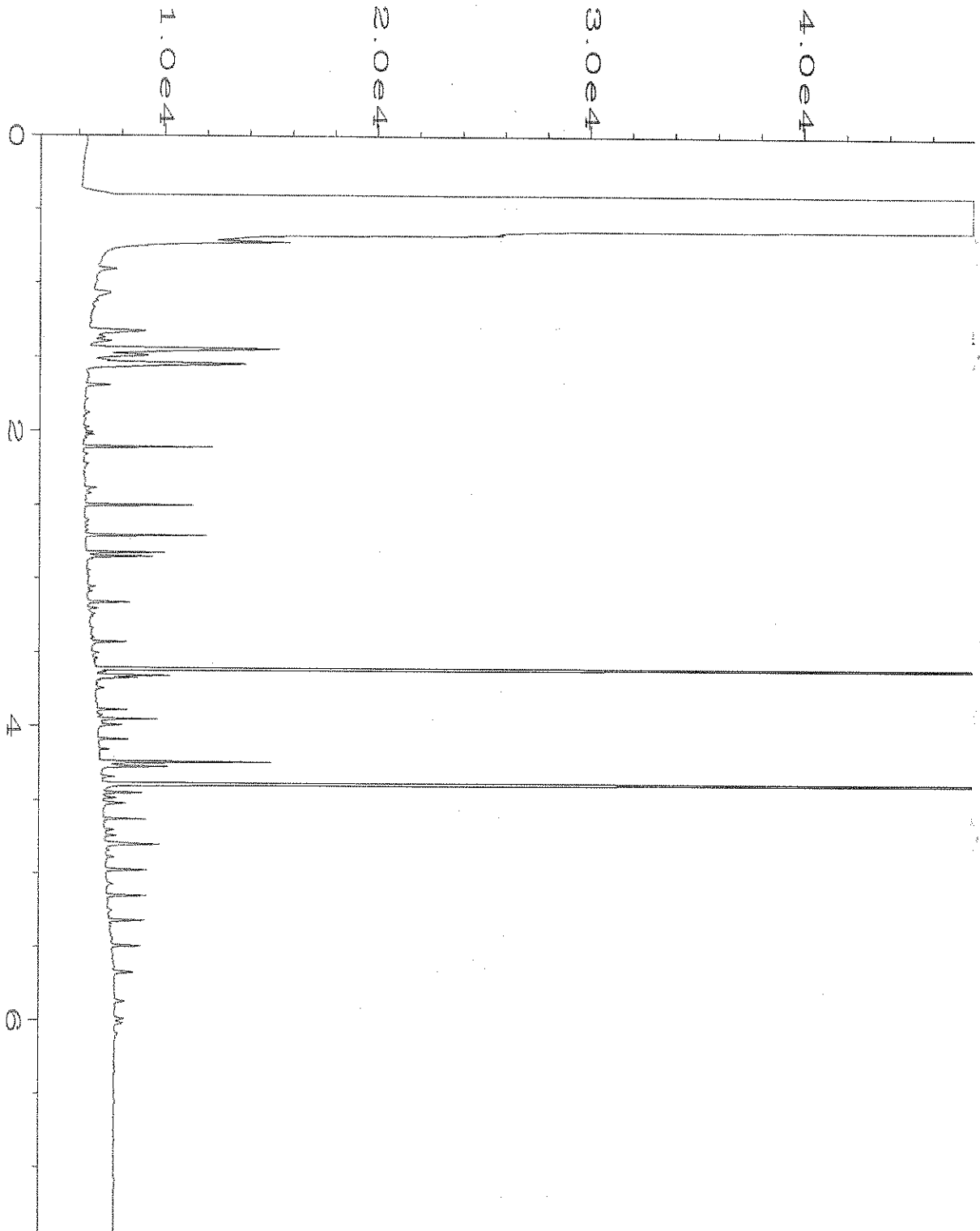
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\1\DATA\06-17-19\027F0401.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 27 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 906291-01 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Jun 19 01:58 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 18 Jun 19 07:04 AM | | |



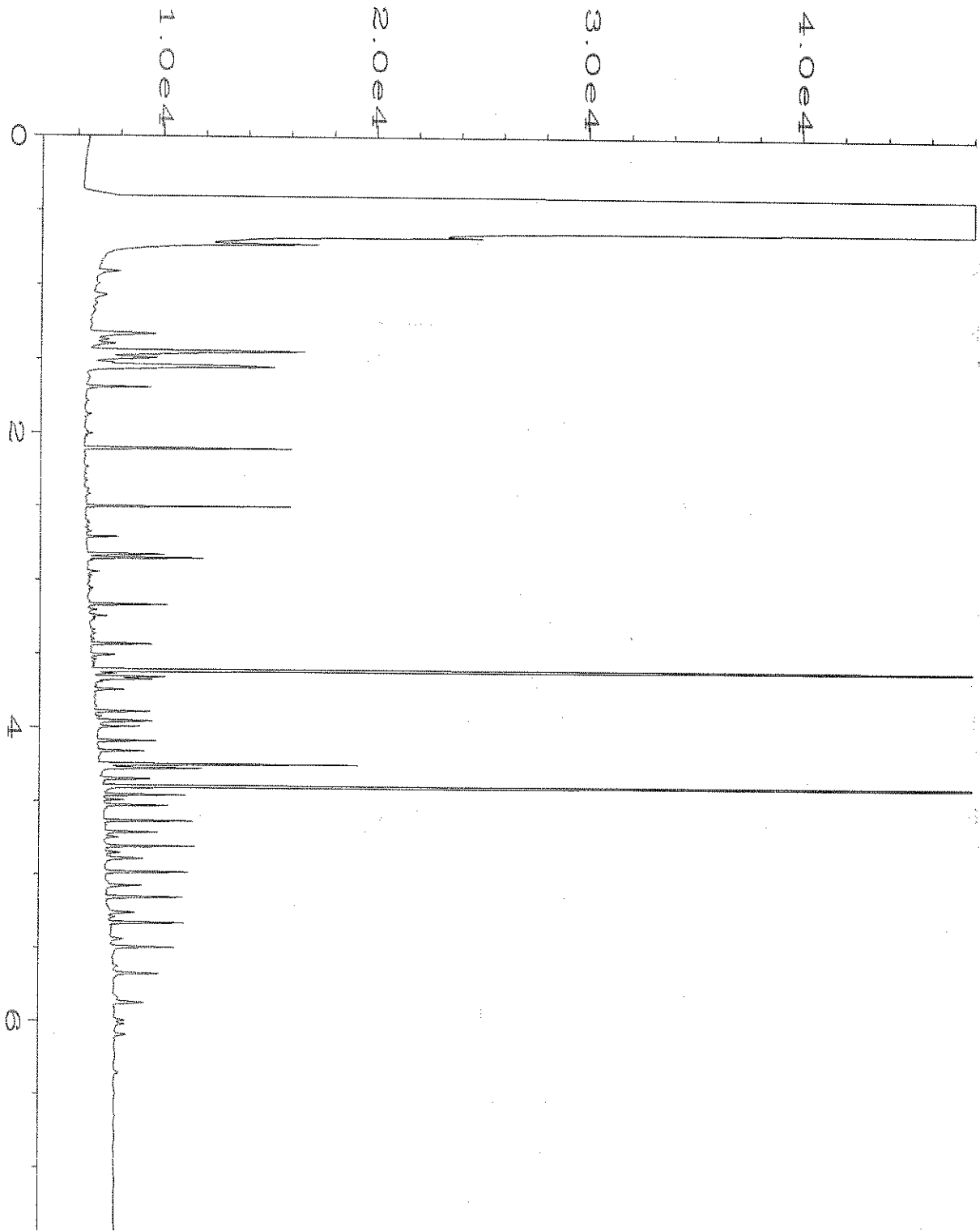
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\1\DATA\06-17-19\028F0401.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 28 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 906291-02 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Jun 19 02:10 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 18 Jun 19 07:04 AM | | |



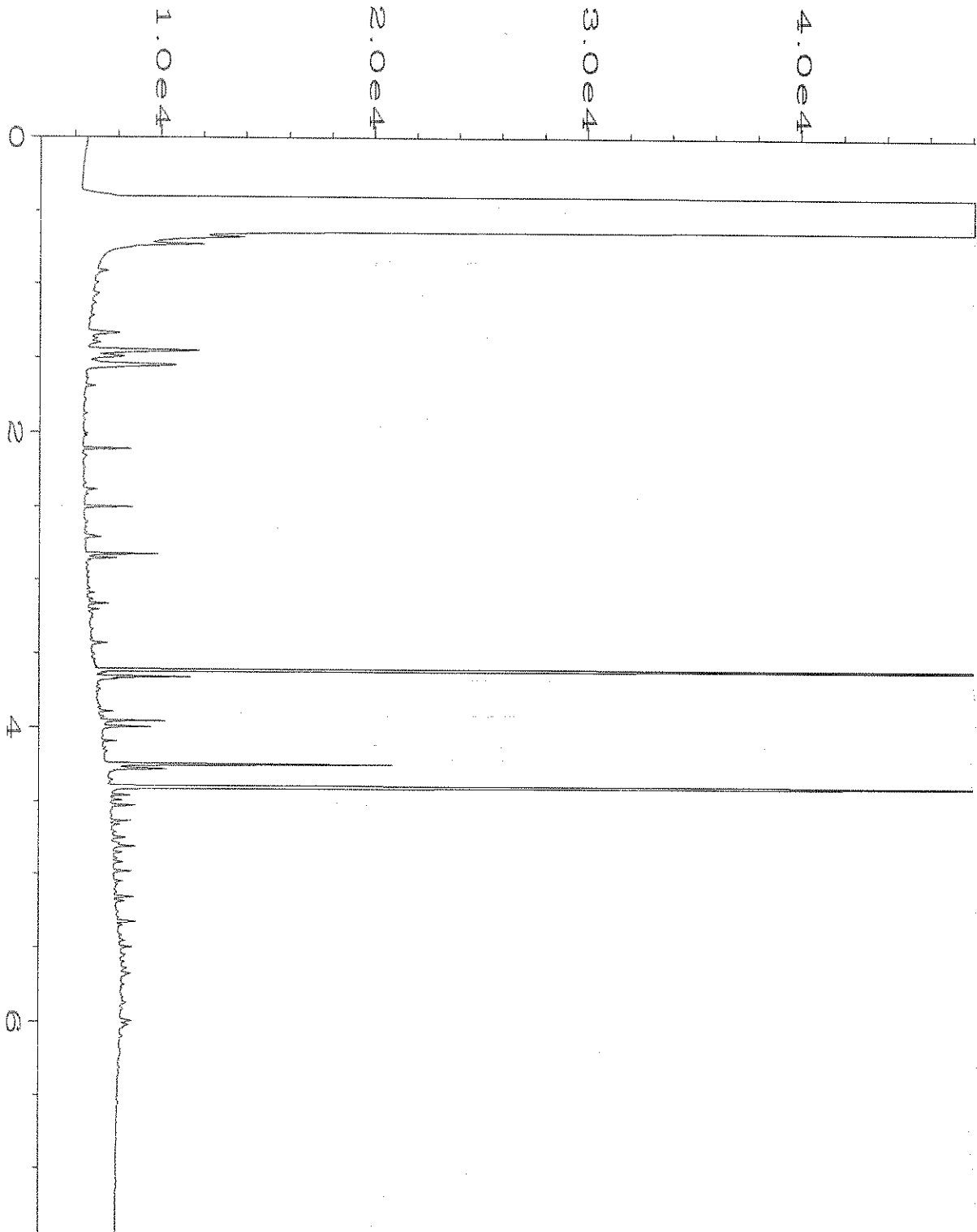
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\1\DATA\06-17-19\029F0401.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 29 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 906291-03 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Jun 19 02:21 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 18 Jun 19 07:04 AM | | |



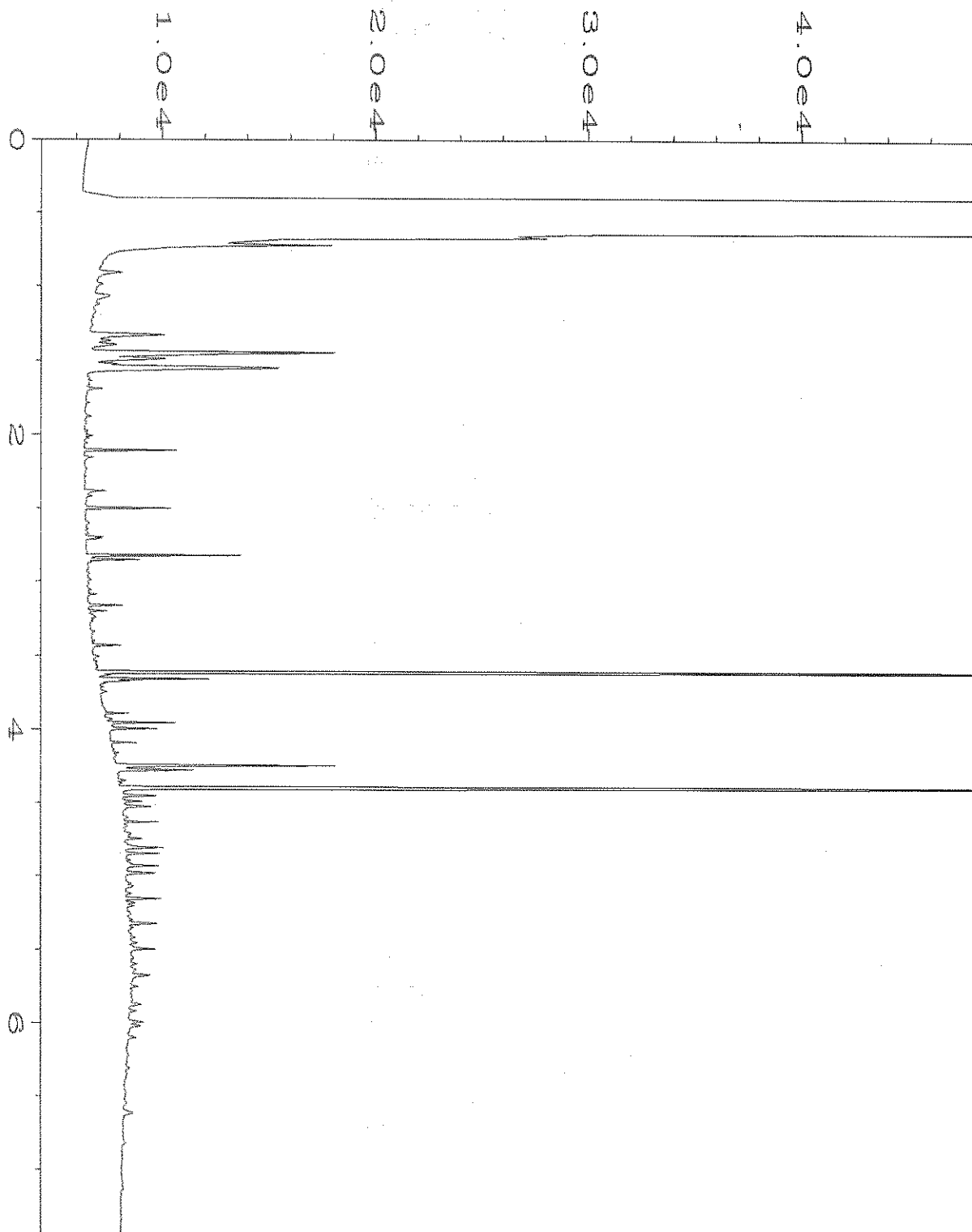
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\1\DATA\06-17-19\030F0401.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 30 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 906291-04 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Jun 19 02:33 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 18 Jun 19 07:05 AM | | |



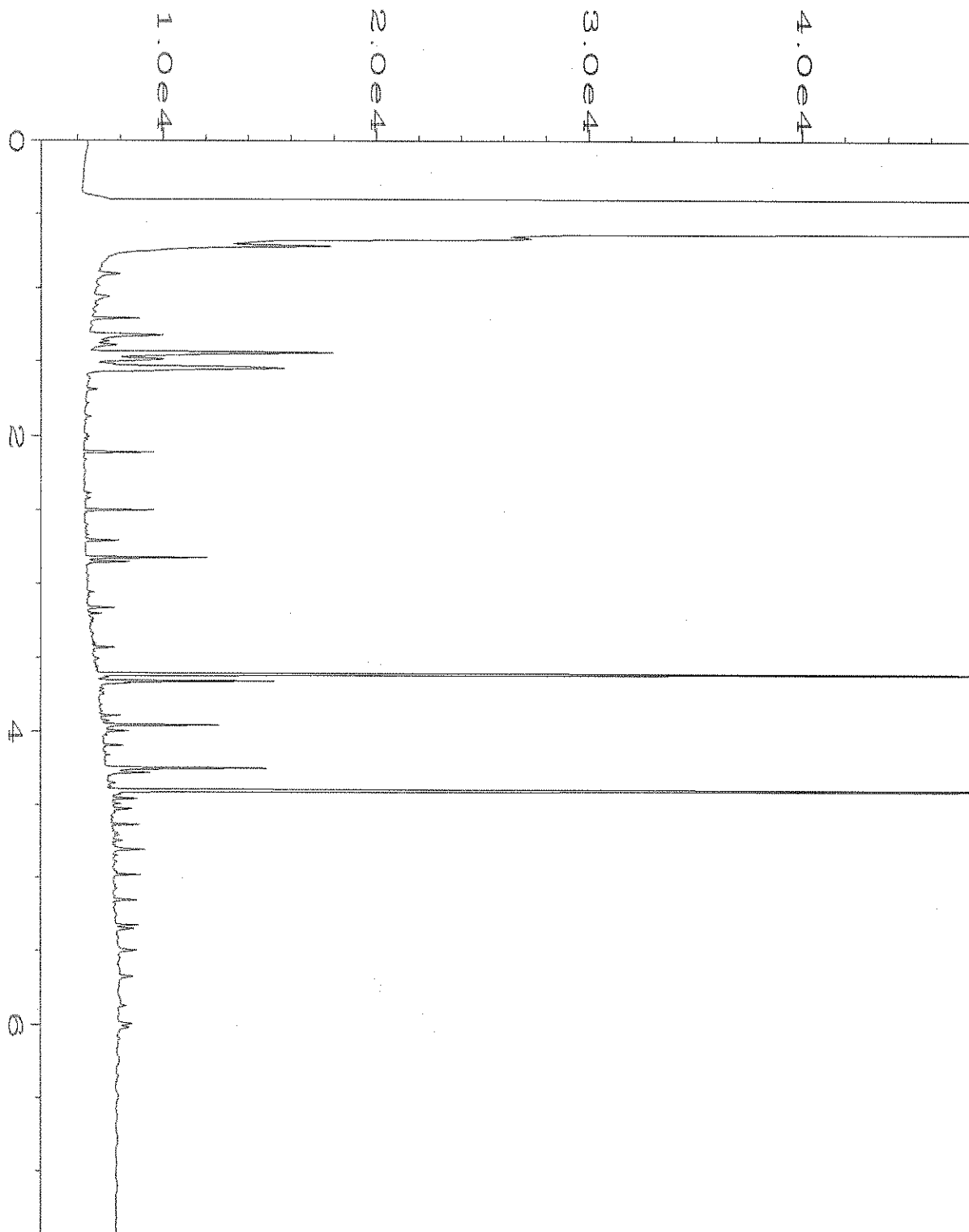
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\1\DATA\06-17-19\031F0601.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 31 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 906291-05 | Sequence Line | : 6 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Jun 19 03:53 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 18 Jun 19 07:05 AM | | |



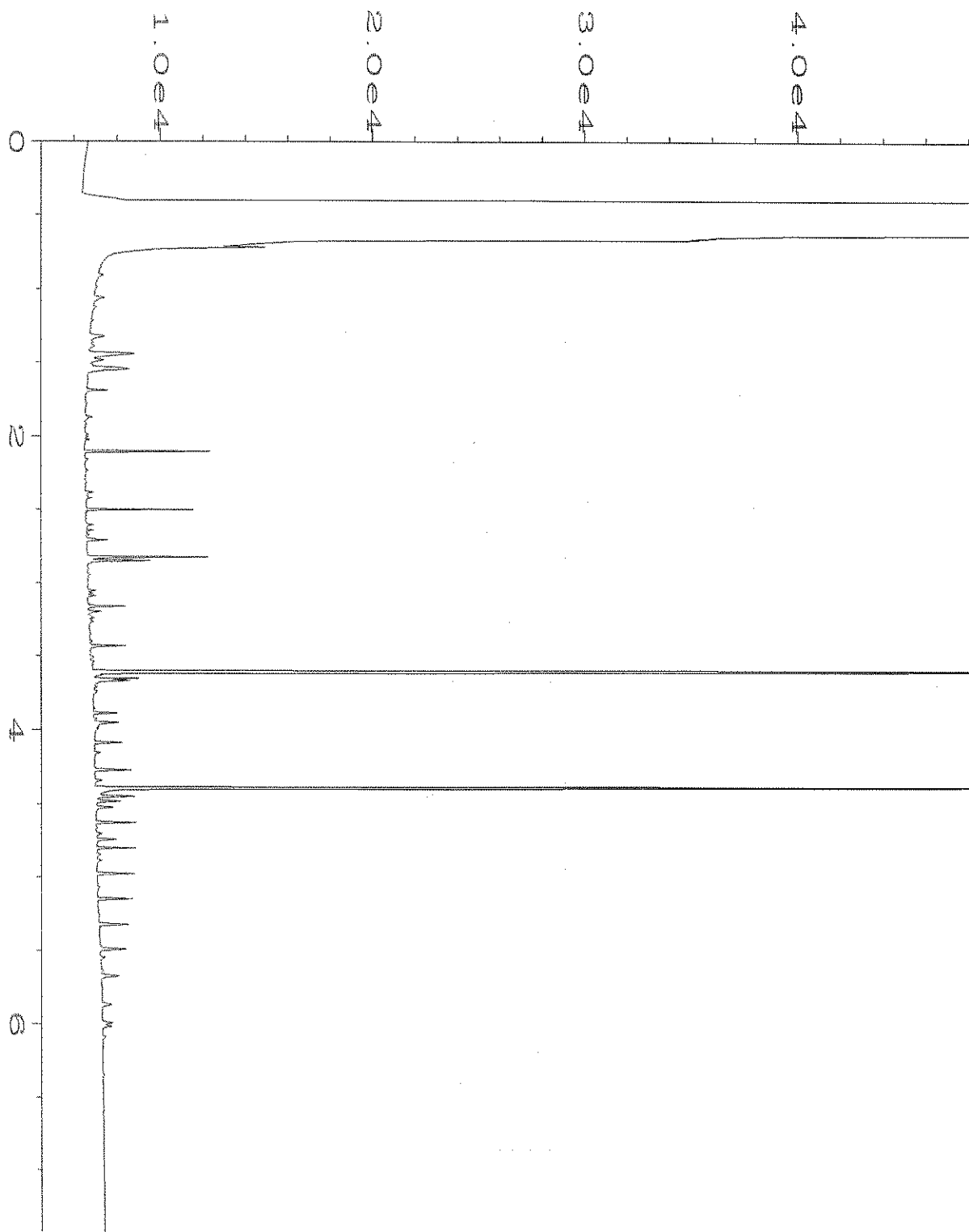
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\1\DATA\06-17-19\032F0601.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 32 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 906291-06 | Sequence Line | : 6 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Jun 19 04:04 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 18 Jun 19 07:05 AM | | |



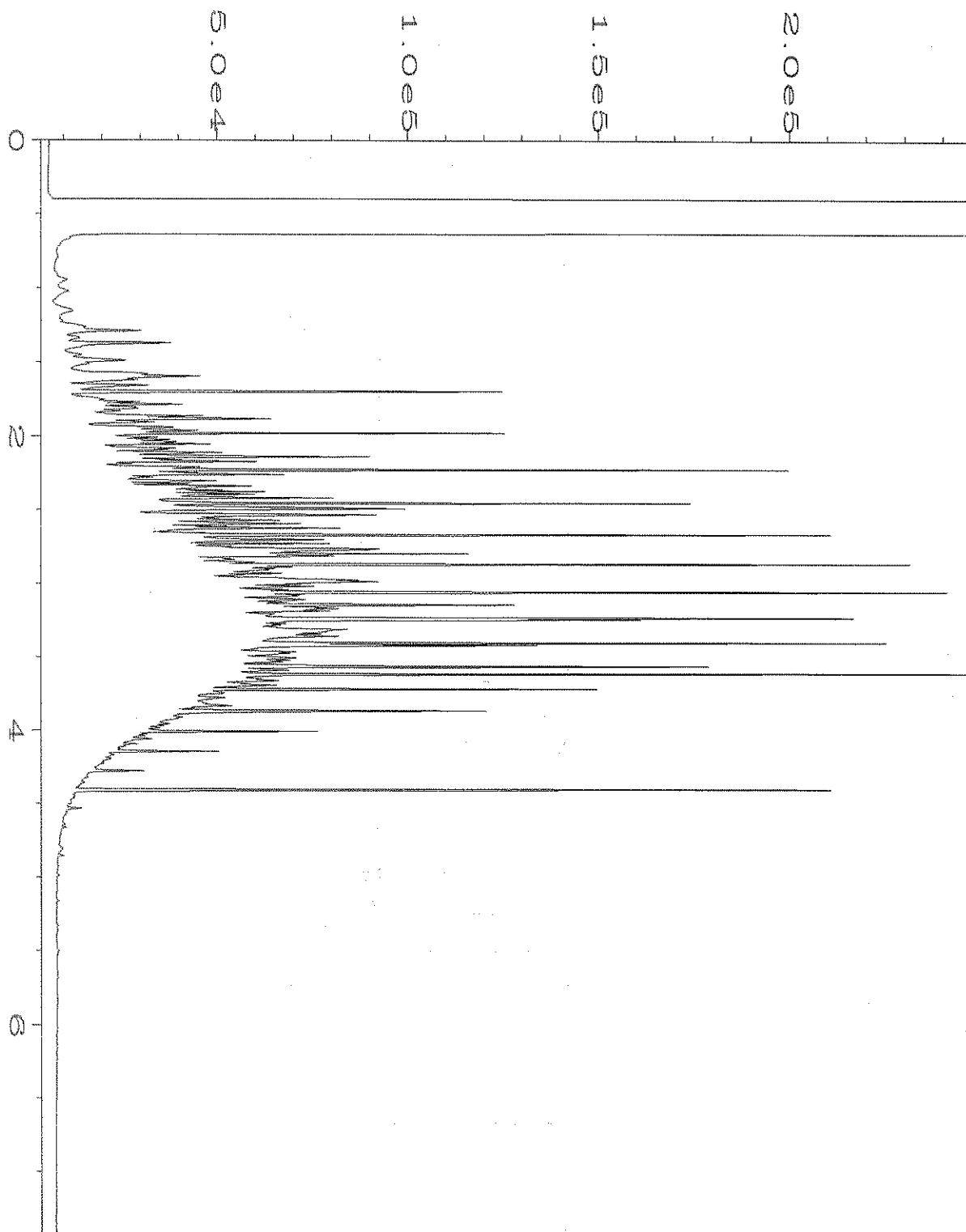
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\1\DATA\06-17-19\033F0601.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 33 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 906291-07 | Sequence Line | : 6 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Jun 19 04:16 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 18 Jun 19 07:05 AM | | |



| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\1\DATA\06-17-19\034F0601.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 34 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 906291-08 | Sequence Line | : 6 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Jun 19 04:28 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 18 Jun 19 07:06 AM | | |



| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\1\DATA\06-17-19\019F0401.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 19 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 09-1421 mb | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Jun 19 12:24 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 18 Jun 19 07:06 AM | | |



| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\1\DATA\06-17-19\005F0501.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 5 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 1000 Dx 57-78B | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Jun 19 03:39 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 18 Jun 19 07:06 AM | | |

906291

SAMPLE CHAIN OF CUSTODY

ME 06-14-19

VW3

Send Report To Tom Cammarata cc: Logan Schumacher
 Company SoundEarth Strategies
 Address 2811 Fairview Ave E, Suite 2000
 City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) Sarah Weller

PROJECT NAME/NO. Troy Laundry Property PO # 0731-004-05

REMARKS EIM Y

TURNAROUND TIME 805
ATS

Standard (2 Weeks) RUSH _____
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of jars | GRPH by NWTPH-Gx | BTEX by EPA 8021B | DRPH/ORPH by NWTPH-Dx | cVOCs by EPA 8260C | Methane, Ethane, Ethene by RSK175 | Sulfate, Nitrate, Alkalinity by SM1845/SM2320B | Total Fe and Mn by EPA 200.8 | Fe 2+ by SM 3500 | TOC By EPA 415.1 | Notes |
|---------------------------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|------------------|-------------------|-----------------------|--------------------|-----------------------------------|--|------------------------------|------------------|------------------|-------|
| MW28-20190613 | MW28 | - | 01A-MG | 6/13/19 | 1535 | W | 15 | X | X | X | X | X | X | X | X | | |
| MW15-20190613 | MW15 | - | 02A-H | 6/13/19 | 1640 | | 7 | X | X | X | X | | X | X | | | |
| MW27-20190614 | MW27 | - | 03 | 6/14/19 | 0830 | | 7 | X | X | X | X | | X | X | | | |
| MW13-20190614 | MW13 | - | 04 | 6/14/19 | 0855 | | 7 | X | X | X | X | | X | X | | | |
| MW01-20190614 | MW01 | - | 05 | 6/14/19 | 0938 | | 7 | X | X | X | X | | X | X | | | |
| MW26-20190614 | MW26 | - | 06A-NC | 6/14/19 | 0950 | | 14 | X | X | X | X | X | X | X | X | X | |
| MW07-20190614 | MW07 | - | 07 | 6/14/19 | 1050 | | 14 | X | X | X | X | X | X | X | X | X | |
| MW04-20190614 | MW04 | - | 08A-MG | 6/14/19 | 1105 | | 15 | X | X | X | X | X | X | X | X | | |
| (SMU) | | | | | | | | | | | | | | | | | |
| Samples received at <u>4</u> °C | | | | | | | | | | | | | | | | | |

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: <u>Sarah Weller</u> | <u>Sarah Weller</u> | <u>SES</u> | <u>6/14/19</u> | <u>1419</u> |
| Received by: <u>[Signature]</u> | <u>WILSON VANBUCCAS</u> | <u>FEDEx</u> | <u>6-14-19</u> | <u>1419</u> |
| Relinquished by: <u>[Signature]</u> | | | | |
| Received by: <u>[Signature]</u> | <u>Nhan Phan</u> | <u>FCBI</u> | <u>6/14/19</u> | <u>1456</u> |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

June 26, 2019

Tom Cammarata, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Cammarata:

Included are the results from the testing of material submitted on June 17, 2019 from the SOU_0731-004-05_ 20190617, F&BI 906323 project. There are 27 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: Logan Schumacher
SOU0626R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 17, 2019 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-05_ 20190617, F&BI 906323 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 906323 -01 | MW25-20190615 |
| 906323 -02 | MW19-20190615 |
| 906323 -03 | MW18-20190615 |
| 906323 -04 | MW17-20190615 |
| 906323 -05 | MW24-20190615 |
| 906323 -06 | MW20-20190615 |
| 906323 -07 | MW21-20190615 |
| 906323 -08 | MW99-20190615 |
| 906323 -09 | MW22-20190615 |
| 906323 -10 | MW23-20190615 |
| 906323 -11 | IW91-20190615 |

Samples MW25-20190615, MW19-20190615, MW18-20190615, MW24-20190615, MW22-20190615, and MW23-20190615 were sent to Fremont Analytical for nitrate, sulfate, alkalinity, TOC, and ferrous iron analysis. In addition, samples MW25-20190615, MW19-20190615, MW18-20190615, MW24-20190615, MW21-20190615, MW22-20190615, and MW23-20190615 were sent to Fremont for dissolved gasses analysis. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/17/19

Project: SOU_0731-004-05_ 20190617, F&BI 906323

Date Extracted: 06/18/19

Date Analyzed: 06/18/19

**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 52-124) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| MW25-20190615 906323-01 | <1 | <1 | <1 | <3 | <100 | 103 |
| MW19-20190615 906323-02 | <1 | <1 | <1 | <3 | <100 | 103 |
| MW18-20190615 906323-03 | <1 | <1 | <1 | <3 | <100 | 102 |
| MW17-20190615 906323-04 | <1 | <1 | <1 | <3 | <100 | 103 |
| MW24-20190615 906323-05 | <1 | <1 | <1 | <3 | <100 | 102 |
| MW20-20190615 906323-06 | <1 | <1 | <1 | <3 | <100 | 103 |
| MW21-20190615 906323-07 | <1 | <1 | <1 | 3.8 | <100 | 102 |
| MW99-20190615 906323-08 | <1 | <1 | <1 | <3 | <100 | 103 |
| MW22-20190615 906323-09 | <1 | <1 | <1 | 21 | 170 | 106 |
| MW23-20190615 906323-10 | <1 | <1 | <1 | 7.1 | 260 | 106 |
| IW91-20190615 906323-11 | <1 | <1 | <1 | <3 | <100 | 103 |
| Method Blank 09-1406 MB | <1 | <1 | <1 | <3 | <100 | 104 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/17/19

Project: SOU_0731-004-05_ 20190617, F&BI 906323

Date Extracted: 06/18/19

Date Analyzed: 06/18/19 and 06/21/19

**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)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> (% Recovery) (Limit 47-140) |
|-----------------------------------|--|---|--|
| MW25-20190615 906323-01 1/10 | 1,000 x | <2,500 | 100 |
| MW19-20190615 906323-02 | 650 x | 430 x | 83 |
| MW18-20190615 906323-03 | 1,100 x | 830 x | ip |
| MW17-20190615 906323-04 | <50 | <250 | 87 |
| MW24-20190615 906323-05 1/10 | 6,400 x | <2,500 | 84 |
| MW20-20190615 906323-06 | 140 x | <250 | 110 |
| MW21-20190615 906323-07 1/10 | 6,400 x | <2,500 | 80 |
| MW99-20190615 906323-08 1/10 | 1,100 x | <2,500 | 105 |
| MW22-20190615 906323-09 1/10 | 24,000 x | 4,600 x | 75 |
| MW23-20190615 906323-10 1/10 | 3,400 x | <2,500 | ip |
| IW91-20190615 906323-11 | <50 | <250 | ip |
| Method Blank 09-1428 MB | <50 | <250 | 108 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|---------------|-------------|--------------------------|
| Client ID: | MW25-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/18/19 | Lab ID: | 906323-01 x10 |
| Date Analyzed: | 06/18/19 | Data File: | 906323-01 x10.111 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | 12,300 |
| Manganese | 9,560 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|---------------|-------------|--------------------------|
| Client ID: | MW19-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/18/19 | Lab ID: | 906323-02 x20 |
| Date Analyzed: | 06/19/19 | Data File: | 906323-02 x20.039 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | 10,000 |
| Manganese | 11,400 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|---------------|-------------|--------------------------|
| Client ID: | MW18-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/18/19 | Lab ID: | 906323-03 x20 |
| Date Analyzed: | 06/19/19 | Data File: | 906323-03 x20.040 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | 13,500 |
| Manganese | 10,100 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|---------------|-------------|--------------------------|
| Client ID: | MW24-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/18/19 | Lab ID: | 906323-05 x100 |
| Date Analyzed: | 06/19/19 | Data File: | 906323-05 x100.050 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | 11,600 |
| Manganese | 21,900 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|---------------|-------------|--------------------------|
| Client ID: | MW22-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/18/19 | Lab ID: | 906323-09 x20 |
| Date Analyzed: | 06/19/19 | Data File: | 906323-09 x20.042 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | 11,200 |
| Manganese | 11,400 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|---------------|-------------|--------------------------|
| Client ID: | MW23-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/18/19 | Lab ID: | 906323-10 x100 |
| Date Analyzed: | 06/19/19 | Data File: | 906323-10 x100.051 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | 12,300 |
| Manganese | 26,700 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|--------------|-------------|--------------------------|
| Client ID: | Method Blank | Client: | SoundEarth Strategies |
| Date Received: | NA | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/18/19 | Lab ID: | I9-375 mb |
| Date Analyzed: | 06/18/19 | Data File: | I9-375 mb.095 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | <50 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW25-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906323-01 |
| Date Analyzed: | 06/19/19 | Data File: | 061937.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 57 | 121 |
| Toluene-d8 | 98 | 63 | 127 |
| 4-Bromofluorobenzene | 96 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | 0.54 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 45 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW19-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906323-02 |
| Date Analyzed: | 06/19/19 | Data File: | 061938.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 57 | 121 |
| Toluene-d8 | 96 | 63 | 127 |
| 4-Bromofluorobenzene | 96 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | 0.79 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 27 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW18-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906323-03 |
| Date Analyzed: | 06/19/19 | Data File: | 061939.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 57 | 121 |
| Toluene-d8 | 95 | 63 | 127 |
| 4-Bromofluorobenzene | 95 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | 0.44 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 28 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW17-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906323-04 |
| Date Analyzed: | 06/19/19 | Data File: | 061940.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 101 | 57 | 121 |
| Toluene-d8 | 97 | 63 | 127 |
| 4-Bromofluorobenzene | 96 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 2.2 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | 3.4 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW24-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906323-05 |
| Date Analyzed: | 06/19/19 | Data File: | 061941.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 57 | 121 |
| Toluene-d8 | 96 | 63 | 127 |
| 4-Bromofluorobenzene | 95 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | 1.0 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 84 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW20-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906323-06 |
| Date Analyzed: | 06/19/19 | Data File: | 061942.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 57 | 121 |
| Toluene-d8 | 97 | 63 | 127 |
| 4-Bromofluorobenzene | 97 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 3.8 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW21-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906323-07 |
| Date Analyzed: | 06/19/19 | Data File: | 061943.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 57 | 121 |
| Toluene-d8 | 96 | 63 | 127 |
| 4-Bromofluorobenzene | 95 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | 1.1 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 29 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW99-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906323-08 |
| Date Analyzed: | 06/19/19 | Data File: | 061944.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 101 | 57 | 121 |
| Toluene-d8 | 96 | 63 | 127 |
| 4-Bromofluorobenzene | 95 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | 0.50 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 43 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW22-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906323-09 |
| Date Analyzed: | 06/19/19 | Data File: | 061945.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 57 | 121 |
| Toluene-d8 | 97 | 63 | 127 |
| 4-Bromofluorobenzene | 96 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | 1.0 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 49 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | 1.1 |
| Tetrachloroethene | 1.1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | MW23-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906323-10 |
| Date Analyzed: | 06/19/19 | Data File: | 061946.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 57 | 121 |
| Toluene-d8 | 96 | 63 | 127 |
| 4-Bromofluorobenzene | 96 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | 0.72 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 25 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | IW91-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906323-11 |
| Date Analyzed: | 06/19/19 | Data File: | 061947.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 57 | 121 |
| Toluene-d8 | 92 | 63 | 127 |
| 4-Bromofluorobenzene | 92 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|----------------|-------------|--------------------------|
| Client Sample ID: | Method Blank | Client: | SoundEarth Strategies |
| Date Received: | Not Applicable | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 09-1432 mb |
| Date Analyzed: | 06/19/19 | Data File: | 061928.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 57 | 121 |
| Toluene-d8 | 98 | 63 | 127 |
| 4-Bromofluorobenzene | 97 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/17/19

Project: SOU_0731-004-05_ 20190617, F&BI 906323

**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: 906323-01 (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 | 107 | 65-118 |
| Toluene | ug/L (ppb) | 50 | 108 | 72-122 |
| Ethylbenzene | ug/L (ppb) | 50 | 112 | 73-126 |
| Xylenes | ug/L (ppb) | 150 | 110 | 74-118 |
| Gasoline | ug/L (ppb) | 1,000 | 98 | 69-134 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/17/19

Project: SOU_0731-004-05_ 20190617, F&BI 906323

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

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 104 | 100 | 61-133 | 4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/17/19

Project: SOU_0731-004-05_ 20190617, F&BI 906323

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

Laboratory Code: 906321-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|-----------------|-------------|---------------|---------------------|----------------------|---------------------|----------------|
| Iron | ug/L (ppb) | 100 | 152 | 89 | 85 | 70-130 | 5 |
| Manganese | ug/L (ppb) | 20 | 30.6 | 101 | 95 | 70-130 | 6 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|-----------------|-------------|----------------------|---------------------|
| Iron | ug/L (ppb) | 100 | 99 | 85-115 |
| Manganese | ug/L (ppb) | 20 | 95 | 85-115 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/17/19

Project: SOU_0731-004-05_ 20190617, F&BI 906323

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

Laboratory Code: 906291-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Acceptance Criteria |
|--------------------------|-----------------|-------------|---------------|---------------------|---------------------|
| Vinyl chloride | ug/L (ppb) | 50 | 0.35 | 119 | 36-166 |
| Chloroethane | ug/L (ppb) | 50 | <1 | 110 | 46-160 |
| 1,1-Dichloroethene | ug/L (ppb) | 50 | 1.5 | 108 | 60-136 |
| Methylene chloride | ug/L (ppb) | 50 | <5 | 109 | 67-132 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 50 | <1 | 110 | 72-129 |
| 1,1-Dichloroethane | ug/L (ppb) | 50 | <1 | 105 | 70-128 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 50 | 80 | 119 b | 71-127 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 50 | <1 | 96 | 48-149 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 50 | <1 | 110 | 60-146 |
| Trichloroethene | ug/L (ppb) | 50 | 5.7 | 98 | 66-135 |
| Tetrachloroethene | ug/L (ppb) | 50 | 9.0 | 101 | 10-226 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|--------------------------|-----------------|-------------|----------------------|-----------------------|---------------------|----------------|
| Vinyl chloride | ug/L (ppb) | 50 | 113 | 107 | 50-154 | 5 |
| Chloroethane | ug/L (ppb) | 50 | 105 | 100 | 58-146 | 5 |
| 1,1-Dichloroethene | ug/L (ppb) | 50 | 103 | 102 | 67-136 | 1 |
| Methylene chloride | ug/L (ppb) | 50 | 102 | 100 | 39-148 | 2 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 50 | 106 | 101 | 68-128 | 5 |
| 1,1-Dichloroethane | ug/L (ppb) | 50 | 102 | 100 | 79-121 | 2 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 50 | 107 | 105 | 80-123 | 2 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 50 | 96 | 100 | 73-132 | 4 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 50 | 106 | 104 | 81-125 | 2 |
| Trichloroethene | ug/L (ppb) | 50 | 98 | 98 | 79-113 | 0 |
| Tetrachloroethene | ug/L (ppb) | 50 | 104 | 103 | 76-121 | 1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

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



Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 906323
Work Order Number: 1906197

June 24, 2019

Attention Michael Erdahl:

Fremont Analytical, Inc. received 7 sample(s) on 6/17/2019 for the analyses presented in the following report.

Dissolved Gases by RSK-175
Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CLIENT: Friedman & Bruya
Project: 906323
Work Order: 1906197

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 1906197-001 | MW25-20190615 | 06/15/2019 8:18 AM | 06/17/2019 1:45 PM |
| 1906197-002 | MW19-20190615 | 06/15/2019 8:24 AM | 06/17/2019 1:45 PM |
| 1906197-003 | MW18-20190615 | 06/15/2019 9:35 AM | 06/17/2019 1:45 PM |
| 1906197-004 | MW24-20190615 | 06/15/2019 11:20 AM | 06/17/2019 1:45 PM |
| 1906197-005 | MW21-20190615 | 06/15/2019 12:32 PM | 06/17/2019 1:45 PM |
| 1906197-006 | MW22-20190615 | 06/15/2019 1:10 PM | 06/17/2019 1:45 PM |
| 1906197-007 | MW23-20190615 | 06/15/2019 2:10 PM | 06/17/2019 1:45 PM |

CLIENT: Friedman & Bruya

Project: 906323

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 (<20%RSD, <20% Drift or minimum RRF)
- 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
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Friedman & Bruya

Collection Date: 6/15/2019 8:18:00 AM

Project: 906323

Lab ID: 1906197-001

Matrix: Water

Client Sample ID: MW25-20190615

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R52203 Analyst: SG

| | | | | | | |
|---------|------|-------|----|------|----|----------------------|
| Methane | 9.67 | 0.173 | DE | mg/L | 20 | 6/19/2019 5:10:00 PM |
| Ethene | ND | 0.303 | D | mg/L | 20 | 6/19/2019 5:10:00 PM |
| Ethane | ND | 0.324 | D | mg/L | 20 | 6/19/2019 5:10:00 PM |

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument.

Ion Chromatography by EPA Method 300.0

Batch ID: 24947 Analyst: SS

| | | | | | | |
|----------------|-------|-------|---|------|---|----------------------|
| Nitrate (as N) | ND | 0.100 | H | mg/L | 1 | 6/18/2019 4:53:00 PM |
| Sulfate | 0.380 | 0.300 | H | mg/L | 1 | 6/18/2019 4:53:00 PM |

Total Organic Carbon by SM 5310C

Batch ID: R52199 Analyst: GM

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 25.8 | 0.500 | | mg/L | 1 | 6/18/2019 7:49:00 PM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by SM 2320B

Batch ID: R52247 Analyst: WF

| | | | | | | |
|------------------------------|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO3) | 575 | 2.50 | | mg/L | 1 | 6/21/2019 1:25:44 PM |
|------------------------------|-----|------|--|------|---|----------------------|

Ferrous Iron by SM3500-Fe B

Batch ID: R52165 Analyst: GM

| | | | | | | |
|--------------|------|-------|----|------|----|----------------------|
| Ferrous Iron | 7.60 | 0.500 | DH | mg/L | 10 | 6/19/2019 5:00:00 PM |
|--------------|------|-------|----|------|----|----------------------|



Client: Friedman & Bruya

Collection Date: 6/15/2019 8:24:00 AM

Project: 906323

Lab ID: 1906197-002

Matrix: Water

Client Sample ID: MW19-20190615

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R52203 Analyst: SG

| | | | | | | |
|---------|------|-------|---|------|----|----------------------|
| Methane | 2.53 | 0.173 | D | mg/L | 20 | 6/19/2019 5:14:00 PM |
| Ethene | ND | 0.303 | D | mg/L | 20 | 6/19/2019 5:14:00 PM |
| Ethane | ND | 0.324 | D | mg/L | 20 | 6/19/2019 5:14:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 24947 Analyst: SS

| | | | | | | |
|----------------|-------|-------|---|------|---|----------------------|
| Nitrate (as N) | ND | 0.100 | H | mg/L | 1 | 6/18/2019 5:16:00 PM |
| Sulfate | 0.380 | 0.300 | H | mg/L | 1 | 6/18/2019 5:16:00 PM |

Total Alkalinity by SM 2320B

Batch ID: R52247 Analyst: WF

| | | | | | | |
|------------------------------|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO3) | 556 | 2.50 | | mg/L | 1 | 6/21/2019 1:25:44 PM |
|------------------------------|-----|------|--|------|---|----------------------|

Ferrous Iron by SM3500-Fe B

Batch ID: R52165 Analyst: GM

| | | | | | | |
|--------------|------|-------|----|------|----|----------------------|
| Ferrous Iron | 7.81 | 0.500 | DH | mg/L | 10 | 6/19/2019 5:00:00 PM |
|--------------|------|-------|----|------|----|----------------------|



Client: Friedman & Bruya

Collection Date: 6/15/2019 9:35:00 AM

Project: 906323

Lab ID: 1906197-003

Matrix: Water

Client Sample ID: MW18-20190615

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R52203 Analyst: SG

| | | | | | | |
|---------|------|-------|---|------|----|----------------------|
| Methane | 5.29 | 0.432 | D | mg/L | 50 | 6/19/2019 5:16:00 PM |
| Ethene | ND | 0.757 | D | mg/L | 50 | 6/19/2019 5:16:00 PM |
| Ethane | ND | 0.809 | D | mg/L | 50 | 6/19/2019 5:16:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 24947 Analyst: SS

| | | | | | | |
|----------------|-------|-------|---|------|---|----------------------|
| Nitrate (as N) | ND | 0.100 | H | mg/L | 1 | 6/18/2019 5:39:00 PM |
| Sulfate | 0.422 | 0.300 | H | mg/L | 1 | 6/18/2019 5:39:00 PM |

Total Organic Carbon by SM 5310C

Batch ID: R52199 Analyst: GM

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 10.6 | 0.500 | | mg/L | 1 | 6/18/2019 9:05:00 PM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by SM 2320B

Batch ID: R52247 Analyst: WF

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 531 | 2.50 | | mg/L | 1 | 6/21/2019 1:25:44 PM |
|---|-----|------|--|------|---|----------------------|

Ferrous Iron by SM3500-Fe B

Batch ID: R52165 Analyst: GM

| | | | | | | |
|--------------|------|-------|----|------|----|----------------------|
| Ferrous Iron | 8.35 | 0.500 | DH | mg/L | 10 | 6/19/2019 5:00:00 PM |
|--------------|------|-------|----|------|----|----------------------|



Client: Friedman & Bruya

Collection Date: 6/15/2019 11:20:00 AM

Project: 906323

Lab ID: 1906197-004

Matrix: Water

Client Sample ID: MW24-20190615

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R52203 Analyst: SG

| | | | | | | |
|---------|------|-------|---|------|----|----------------------|
| Methane | 2.66 | 0.432 | D | mg/L | 50 | 6/19/2019 5:18:00 PM |
| Ethene | ND | 0.757 | D | mg/L | 50 | 6/19/2019 5:18:00 PM |
| Ethane | ND | 0.809 | D | mg/L | 50 | 6/19/2019 5:18:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 24947 Analyst: SS

| | | | | | | |
|----------------|-------|-------|---|------|---|----------------------|
| Nitrate (as N) | ND | 0.100 | H | mg/L | 1 | 6/18/2019 6:03:00 PM |
| Sulfate | 0.348 | 0.300 | H | mg/L | 1 | 6/18/2019 6:03:00 PM |

Total Organic Carbon by SM 5310C

Batch ID: R52199 Analyst: GM

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 20.5 | 0.500 | | mg/L | 1 | 6/18/2019 9:24:00 PM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by SM 2320B

Batch ID: R52247 Analyst: WF

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 414 | 2.50 | | mg/L | 1 | 6/21/2019 1:25:44 PM |
|---|-----|------|--|------|---|----------------------|

Ferrous Iron by SM3500-Fe B

Batch ID: R52165 Analyst: GM

| | | | | | | |
|--------------|------|-------|----|------|----|----------------------|
| Ferrous Iron | 11.1 | 0.500 | DH | mg/L | 10 | 6/19/2019 5:00:00 PM |
|--------------|------|-------|----|------|----|----------------------|



Client: Friedman & Bruya

Collection Date: 6/15/2019 12:32:00 PM

Project: 906323

Lab ID: 1906197-005

Matrix: Water

Client Sample ID: MW21-20190615

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R52203 Analyst: SG

| | | | | | | |
|---------|------|-------|---|------|----|----------------------|
| Methane | 2.46 | 0.432 | D | mg/L | 50 | 6/19/2019 5:25:00 PM |
| Ethene | ND | 0.757 | D | mg/L | 50 | 6/19/2019 5:25:00 PM |
| Ethane | ND | 0.809 | D | mg/L | 50 | 6/19/2019 5:25:00 PM |

Total Organic Carbon by SM 5310C

Batch ID: R52199 Analyst: GM

| | | | | | | |
|----------------------|-----|------|---|------|---|-----------------------|
| Total Organic Carbon | 163 | 2.50 | D | mg/L | 5 | 6/19/2019 11:36:00 AM |
|----------------------|-----|------|---|------|---|-----------------------|



Client: Friedman & Bruya

Collection Date: 6/15/2019 1:10:00 PM

Project: 906323

Lab ID: 1906197-006

Matrix: Water

Client Sample ID: MW22-20190615

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R52203 Analyst: SG

| | | | | | | |
|---------|------|-------|---|------|----|----------------------|
| Methane | 3.09 | 0.432 | D | mg/L | 50 | 6/19/2019 5:27:00 PM |
| Ethene | ND | 0.757 | D | mg/L | 50 | 6/19/2019 5:27:00 PM |
| Ethane | ND | 0.809 | D | mg/L | 50 | 6/19/2019 5:27:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 24947 Analyst: SS

| | | | | | | |
|----------------|----|-------|---|------|---|----------------------|
| Nitrate (as N) | ND | 0.100 | H | mg/L | 1 | 6/18/2019 6:26:00 PM |
| Sulfate | ND | 0.300 | H | mg/L | 1 | 6/18/2019 6:26:00 PM |

Total Organic Carbon by SM 5310C

Batch ID: R52199 Analyst: GM

| | | | | | | |
|----------------------|-----|------|---|------|----|-----------------------|
| Total Organic Carbon | 286 | 25.0 | D | mg/L | 50 | 6/19/2019 11:57:00 AM |
|----------------------|-----|------|---|------|----|-----------------------|

Total Alkalinity by SM 2320B

Batch ID: R52247 Analyst: WF

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 273 | 2.50 | | mg/L | 1 | 6/21/2019 1:25:44 PM |
|---|-----|------|--|------|---|----------------------|

Ferrous Iron by SM3500-Fe B

Batch ID: R52165 Analyst: GM

| | | | | | | |
|--------------|------|-------|----|------|----|----------------------|
| Ferrous Iron | 11.6 | 0.500 | DH | mg/L | 10 | 6/19/2019 5:00:00 PM |
|--------------|------|-------|----|------|----|----------------------|



Client: Friedman & Bruya

Collection Date: 6/15/2019 2:10:00 PM

Project: 906323

Lab ID: 1906197-007

Matrix: Water

Client Sample ID: MW23-20190615

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R52203 Analyst: SG

| | | | | | | |
|---------|------|-------|---|------|----|----------------------|
| Methane | 2.90 | 0.432 | D | mg/L | 50 | 6/19/2019 5:30:00 PM |
| Ethene | ND | 0.757 | D | mg/L | 50 | 6/19/2019 5:30:00 PM |
| Ethane | ND | 0.809 | D | mg/L | 50 | 6/19/2019 5:30:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 24947 Analyst: SS

| | | | | | | |
|----------------|-------|-------|---|------|---|----------------------|
| Nitrate (as N) | ND | 0.100 | H | mg/L | 1 | 6/18/2019 6:49:00 PM |
| Sulfate | 0.378 | 0.300 | H | mg/L | 1 | 6/18/2019 6:49:00 PM |

Total Organic Carbon by SM 5310C

Batch ID: R52199 Analyst: GM

| | | | | | | |
|----------------------|------|------|---|------|---|-----------------------|
| Total Organic Carbon | 60.7 | 1.00 | D | mg/L | 2 | 6/19/2019 12:29:00 PM |
|----------------------|------|------|---|------|---|-----------------------|

Total Alkalinity by SM 2320B

Batch ID: R52247 Analyst: WF

| | | | | | | |
|------------------------------|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO3) | 639 | 2.50 | | mg/L | 1 | 6/21/2019 1:25:44 PM |
|------------------------------|-----|------|--|------|---|----------------------|

Ferrous Iron by SM3500-Fe B

Batch ID: R52165 Analyst: GM

| | | | | | | |
|--------------|------|-------|----|------|----|----------------------|
| Ferrous Iron | 13.0 | 0.500 | DH | mg/L | 10 | 6/19/2019 5:00:00 PM |
|--------------|------|-------|----|------|----|----------------------|

Work Order: 1906197
CLIENT: Friedman & Bruya
Project: 906323

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-R52247 | SampType: MBLK | Units: mg/L | Prep Date: 6/21/2019 | RunNo: 52247 | | | | | | | |
| Client ID: MBLKW | Batch ID: R52247 | | Analysis Date: 6/21/2019 | SeqNo: 1031932 | | | | | | | |
| 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-R52247 | SampType: LCS | Units: mg/L | Prep Date: 6/21/2019 | RunNo: 52247 | | | | | | | |
| Client ID: LCSW | Batch ID: R52247 | | Analysis Date: 6/21/2019 | SeqNo: 1031933 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 104 | 2.50 | 100.0 | 0 | 104 | 80 | 120 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906195-001BDUP | SampType: DUP | Units: mg/L | Prep Date: 6/21/2019 | RunNo: 52247 | | | | | | | |
| Client ID: BATCH | Batch ID: R52247 | | Analysis Date: 6/21/2019 | SeqNo: 1031935 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 618 | 2.50 | | | | | | 611.0 | 1.06 | 20 | |

Work Order: 1906197
CLIENT: Friedman & Bruya
Project: 906323

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-R52165 | SampType: MBLK | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: MBLKW | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1029999 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron ND 0.0500

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-R52165 | SampType: LCS | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: LCSW | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1030000 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron 0.406 0.0500 0.4000 0 101 80 120

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906196-001ADUP | SampType: DUP | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: BATCH | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1030007 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron 0.922 0.0500 1.023 10.4 20 H

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906196-001AMS | SampType: MS | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: BATCH | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1030008 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron 1.29 0.0500 0.4000 1.023 66.9 80 120 SH

NOTES:

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

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906196-001AMSD | SampType: MSD | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: BATCH | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1030009 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron 1.29 0.0500 0.4000 1.023 67.5 80 120 1.291 0.182 20 SH

NOTES:

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

Work Order: 1906197
 CLIENT: Friedman & Bruya
 Project: 906323

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

| Sample ID: MB-24947 | SampType: MBLK | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|----------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: 24947 | | Analysis Date: 6/17/2019 | SeqNo: 1029908 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | |
|----------------|----|-------|
| Nitrate (as N) | ND | 0.100 |
| Sulfate | ND | 0.300 |

| Sample ID: LCS1-24947 | SampType: LCS | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | Analysis Date: 6/17/2019 | SeqNo: 1029909 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|
| Nitrate (as N) | 0.739 | 0.100 | 0.7500 | 0 | 98.5 | 90 | 110 |
| Sulfate | 3.65 | 0.300 | 3.750 | 0 | 97.4 | 90 | 110 |

| Sample ID: LCS2-24947 | SampType: LCS | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | Analysis Date: 6/18/2019 | SeqNo: 1029925 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|
| Nitrate (as N) | 0.725 | 0.100 | 0.7500 | 0 | 96.7 | 90 | 110 |
| Sulfate | 3.57 | 0.300 | 3.750 | 0 | 95.2 | 90 | 110 |

| Sample ID: LCS3-24947 | SampType: LCS | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | Analysis Date: 6/18/2019 | SeqNo: 1029926 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|
| Nitrate (as N) | 0.725 | 0.100 | 0.7500 | 0 | 96.7 | 90 | 110 |
| Sulfate | 3.55 | 0.300 | 3.750 | 0 | 94.6 | 90 | 110 |

| Sample ID: LCS4-24947 | SampType: LCS | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | Analysis Date: 6/18/2019 | SeqNo: 1029927 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|
| Nitrate (as N) | 0.732 | 0.100 | 0.7500 | 0 | 97.6 | 90 | 110 |
|----------------|-------|-------|--------|---|------|----|-----|

Work Order: 1906197
 CLIENT: Friedman & Bruya
 Project: 906323

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

| Sample ID: LCS4-24947 | SampType: LCS | Units: mg/L | | | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | |
|------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | | | Analysis Date: 6/18/2019 | SeqNo: 1029927 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfate 3.73 0.300 3.750 0 99.4 90 110

| Sample ID: 1906195-001BDUP | SampType: DUP | Units: mg/L | | | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 24947 | | | | Analysis Date: 6/18/2019 | SeqNo: 1029933 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrate (as N) ND 0.100 0 0 20 H
 Sulfate 0.749 0.300 0.7590 1.33 20

| Sample ID: 1906195-001BMS | SampType: MS | Units: mg/L | | | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 24947 | | | | Analysis Date: 6/18/2019 | SeqNo: 1029934 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrate (as N) 0.787 0.100 0.7500 0.09000 92.9 80 120 H
 Sulfate 4.20 0.300 3.750 0.7590 91.8 80 120

| Sample ID: 1906195-001BMSD | SampType: MSD | Units: mg/L | | | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 24947 | | | | Analysis Date: 6/18/2019 | SeqNo: 1029935 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrate (as N) 0.784 0.100 0.7500 0.09000 92.5 80 120 0.7870 0.382 20 H
 Sulfate 4.18 0.300 3.750 0.7590 91.3 80 120 4.203 0.525 20

Work Order: 1906197
 CLIENT: Friedman & Bruya
 Project: 906323

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: MBLK-52199 | SampType: MBLK | Units: mg/L | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | | | |
| Client ID: MBLKW | Batch ID: R52199 | | Analysis Date: 6/18/2019 | SeqNo: 1030537 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon ND 0.500

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-52199 | SampType: LCS | Units: mg/L | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | | | |
| Client ID: LCSW | Batch ID: R52199 | | Analysis Date: 6/18/2019 | SeqNo: 1030538 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon 5.14 0.500 5.000 0 103 80 120

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906179-001DDUP | SampType: DUP | Units: mg/L | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | | | |
| Client ID: BATCH | Batch ID: R52199 | | Analysis Date: 6/18/2019 | SeqNo: 1030540 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon 1.14 0.500 1.129 0.618 20

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906179-001DMS | SampType: MS | Units: mg/L | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | | | |
| Client ID: BATCH | Batch ID: R52199 | | Analysis Date: 6/18/2019 | SeqNo: 1030541 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon 6.48 0.500 5.000 1.129 107 70 130

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906179-001DMSD | SampType: MSD | Units: mg/L | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | | | |
| Client ID: BATCH | Batch ID: R52199 | | Analysis Date: 6/18/2019 | SeqNo: 1030542 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon 6.28 0.500 5.000 1.129 103 70 130 6.478 3.02 30



Work Order: 1906197
CLIENT: Friedman & Bruya
Project: 906323

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|-------|----------|------|
| Sample ID: 1906197-001DDUP | SampType: DUP | Units: mg/L | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | | | |
| Client ID: MW25-20190615 | Batch ID: R52199 | Analysis Date: 6/18/2019 | SeqNo: 1030549 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 26.0 | 0.500 | | | | | | 25.77 | 0.927 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906197-001DMS | SampType: MS | Units: mg/L | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | | | |
| Client ID: MW25-20190615 | Batch ID: R52199 | Analysis Date: 6/18/2019 | SeqNo: 1030550 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 31.0 | 0.500 | 5.000 | 25.77 | 104 | 70 | 130 | | | | |

Work Order: 1906197
CLIENT: Friedman & Bruya
Project: 906323

QC SUMMARY REPORT
Dissolved Gases by RSK-175

| Sample ID: LCS-R52203 | SampType: LCS | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52203 | | | | | | | |
|------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: R52203 | | Analysis Date: 6/19/2019 | SeqNo: 1030678 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|------|----|-----|--|--|--|--|
| Methane | 1,020 | 0.00863 | 1,000 | 0 | 102 | 70 | 130 | | | | |
| Ethene | 976 | 0.0151 | 1,000 | 0 | 97.6 | 70 | 130 | | | | |
| Ethane | 973 | 0.0162 | 1,000 | 0 | 97.3 | 70 | 130 | | | | |

| Sample ID: MB-R52203 | SampType: MBLK | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52203 | | | | | | | |
|-----------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: R52203 | | Analysis Date: 6/19/2019 | SeqNo: 1030679 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00863 | | | | | | | | | |
| Ethene | ND | 0.0151 | | | | | | | | | |
| Ethane | ND | 0.0162 | | | | | | | | | |

| Sample ID: 1906152-001AREP | SampType: REP | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52203 | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: R52203 | | Analysis Date: 6/19/2019 | SeqNo: 1030653 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------|------|-------|--|--|--|--|--|-------|------|----|----|
| Methane | 4.81 | 0.173 | | | | | | 4.601 | 4.43 | 30 | ED |
| Ethene | ND | 0.303 | | | | | | 0 | | 30 | D |
| Ethane | ND | 0.324 | | | | | | 0 | | 30 | D |

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument.

Client Name: **FB**
 Logged by: **Clare Griggs**

Work Order Number: **1906197**
 Date Received: **6/17/2019 1:45:00 PM**

Chain of Custody

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

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C * Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. 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"/> | | |

19. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Cooler | 9.6 |
| Sample | 8.7 |

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

1906197

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 3012 16th Ave W
 City, State, ZIP Seattle, WA 98119
 Phone # (206) 285-8282 Fax # (206) 283-5044

| | |
|-------------------------------------|-------------------|
| SUBCONTRACTER <i>Sund.</i> | |
| PROJECT NAME/NO. 906323 | PO # B-297 |
| REMARKS Please Email Results | |

Page # 1 of 1

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____

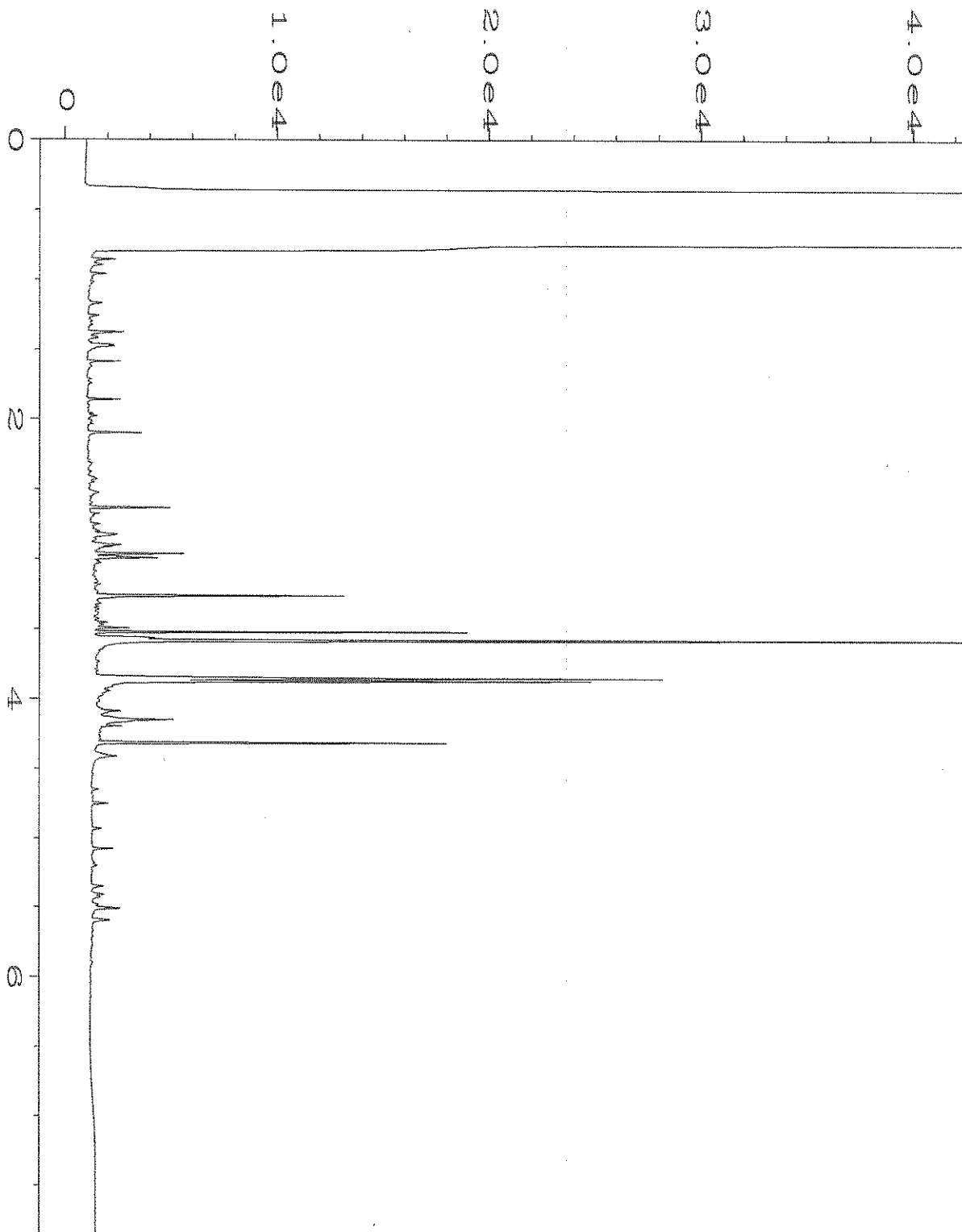
SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Page 20 of 20

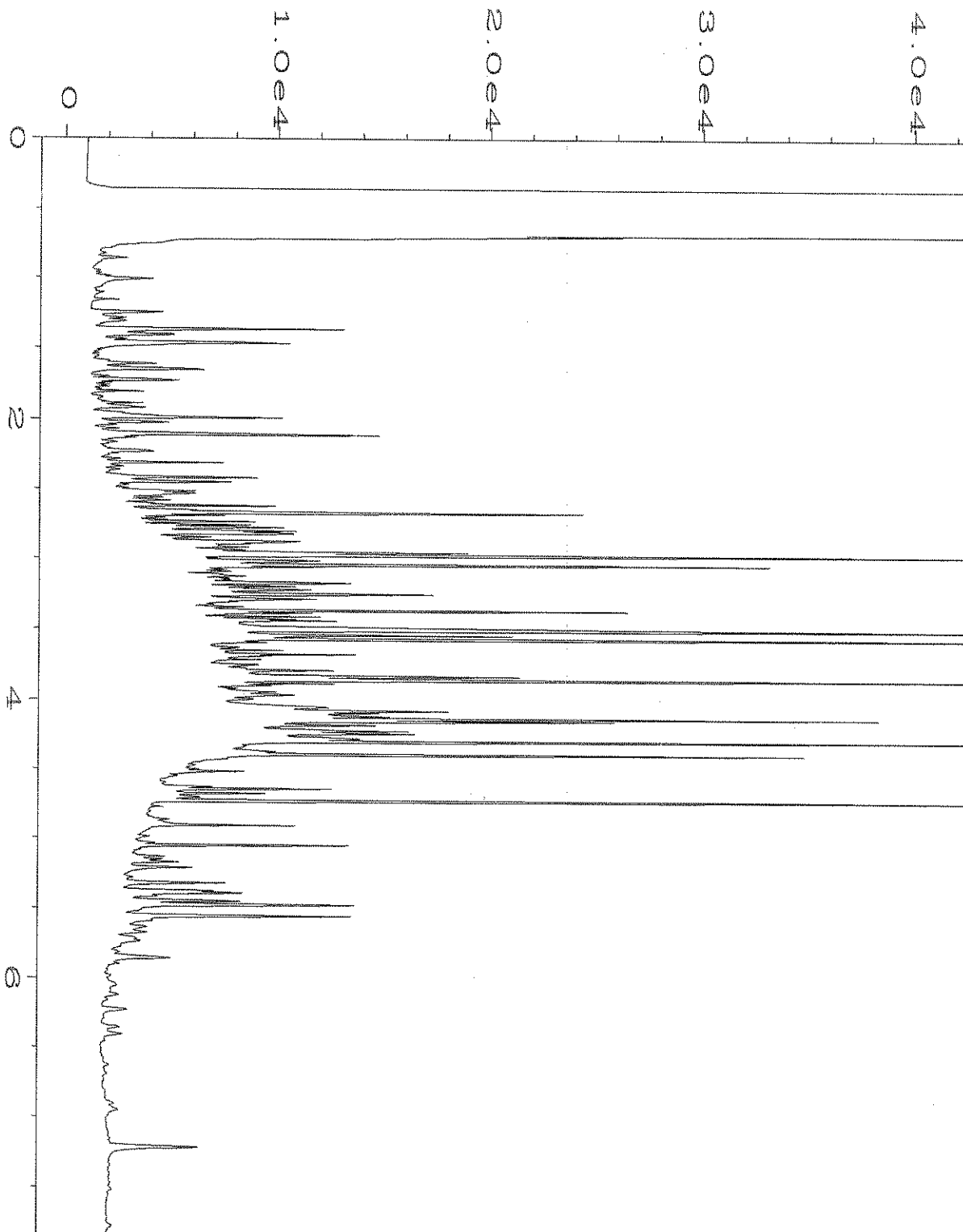
| Sample ID | Lab ID | Date Sampled | Time Sampled | Matrix | # of jars | ANALYSES REQUESTED | | | | | | | | | | Notes | |
|---------------|--------|--------------|--------------|------------------|-----------|--------------------|-----|-----|---------|-------------------------|------------------|------------|--------------|-----|--|-------|--|
| | | | | | | Dioxins/Furans | EPH | VPH | RSK 175 | Methane, Ethane, Ethene | Sulfate, Nitrate | Alkalinity | Ferrous Iron | TOC | | | |
| MW25-20190615 | | 6/15/19 | 6/15 0818 | H ₂ O | | | | | X | X | X | X | | | | | |
| MW19-20190615 | | / | 0824 | ↓ | | | | | X | X | X | | | | | | |
| MW18-20190615 | | | 0935 | | | | | | | X | X | X | X | | | | |
| MW24-20190615 | | | 1120 | | | | | | | X | X | X | X | | | | |
| MW21-20190615 | | | 1232 | | | | | | | X | | | X | | | | |
| MW22-20190615 | | | 1310 | | | | | | | X | X | X | X | | | | |
| MW23-20190615 | | | 1410 | | | | | | | X | X | X | X | | | | |

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

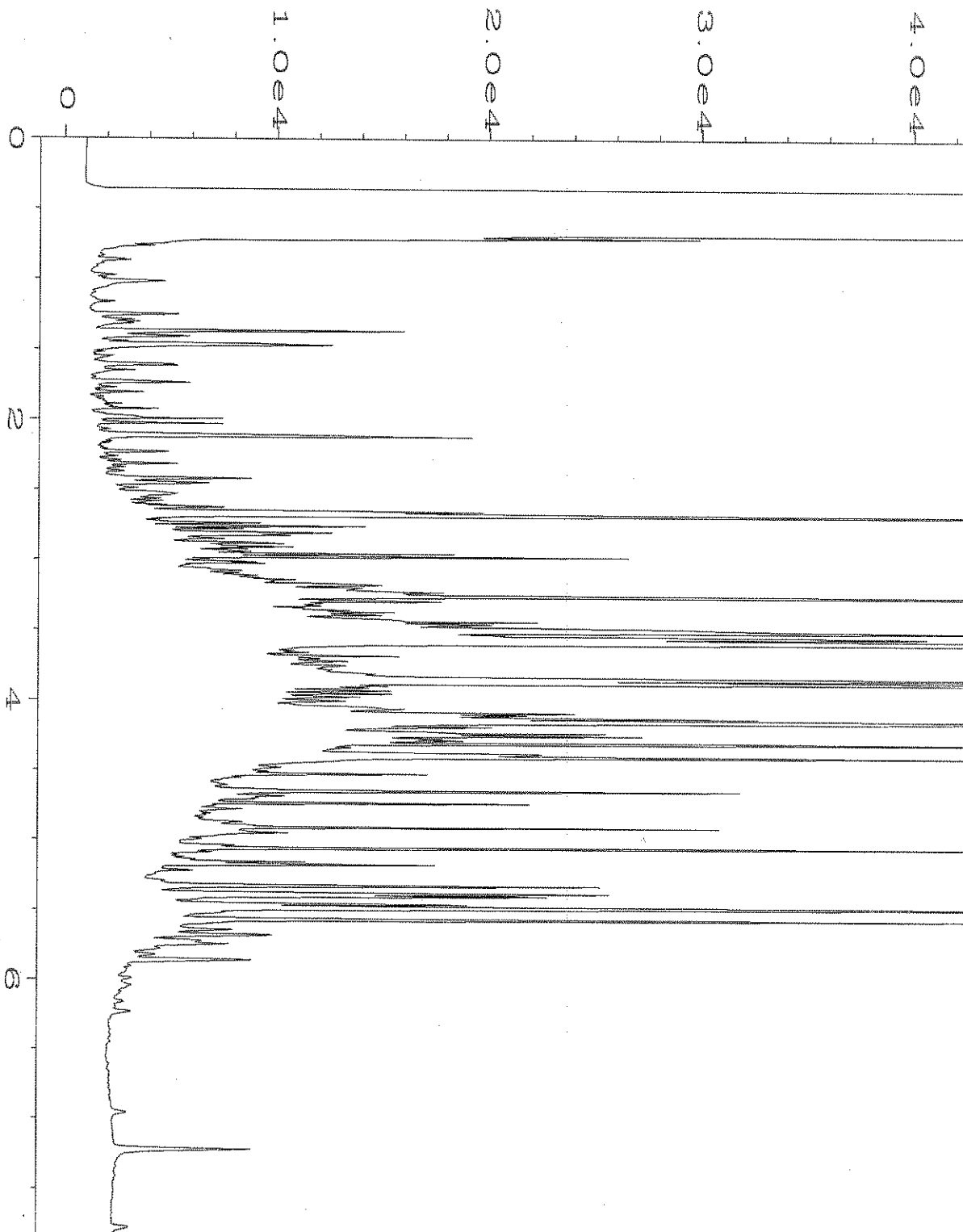
| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|------------------|----------------|------------------|---------|-------|
| Relinquished by: | Michael Erdahl | Friedman & Bruya | 6/17/19 | 12:10 |
| Received by: | | F&B | 6/17/19 | 1345 |
| Relinquished by: | | | | |
| Received by: | | | | |



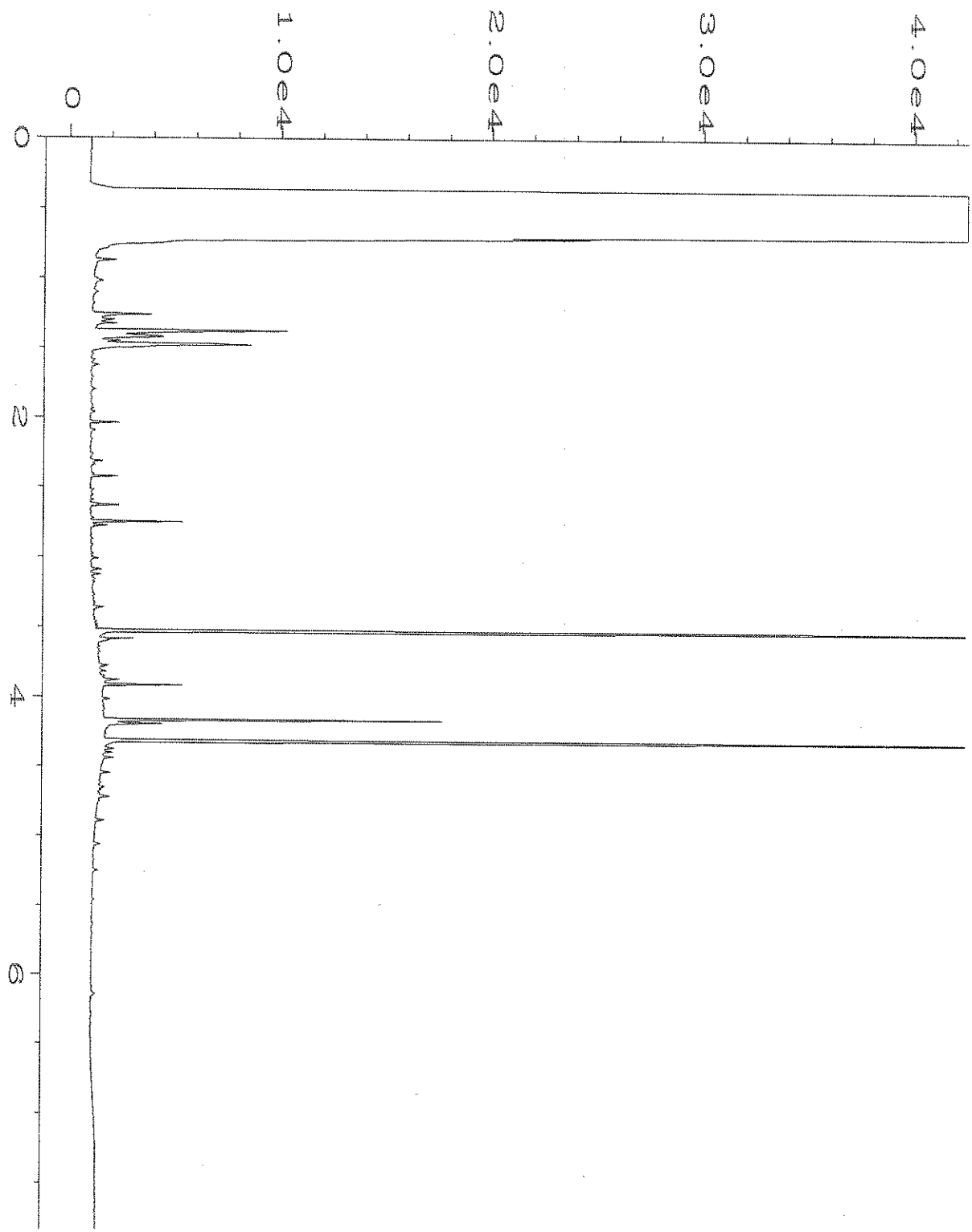
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\4\DATA\06-18-19\024F1001.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 24 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 906323-01 1/10 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 18 Jun 19 06:32 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 19 Jun 19 09:36 AM | | |



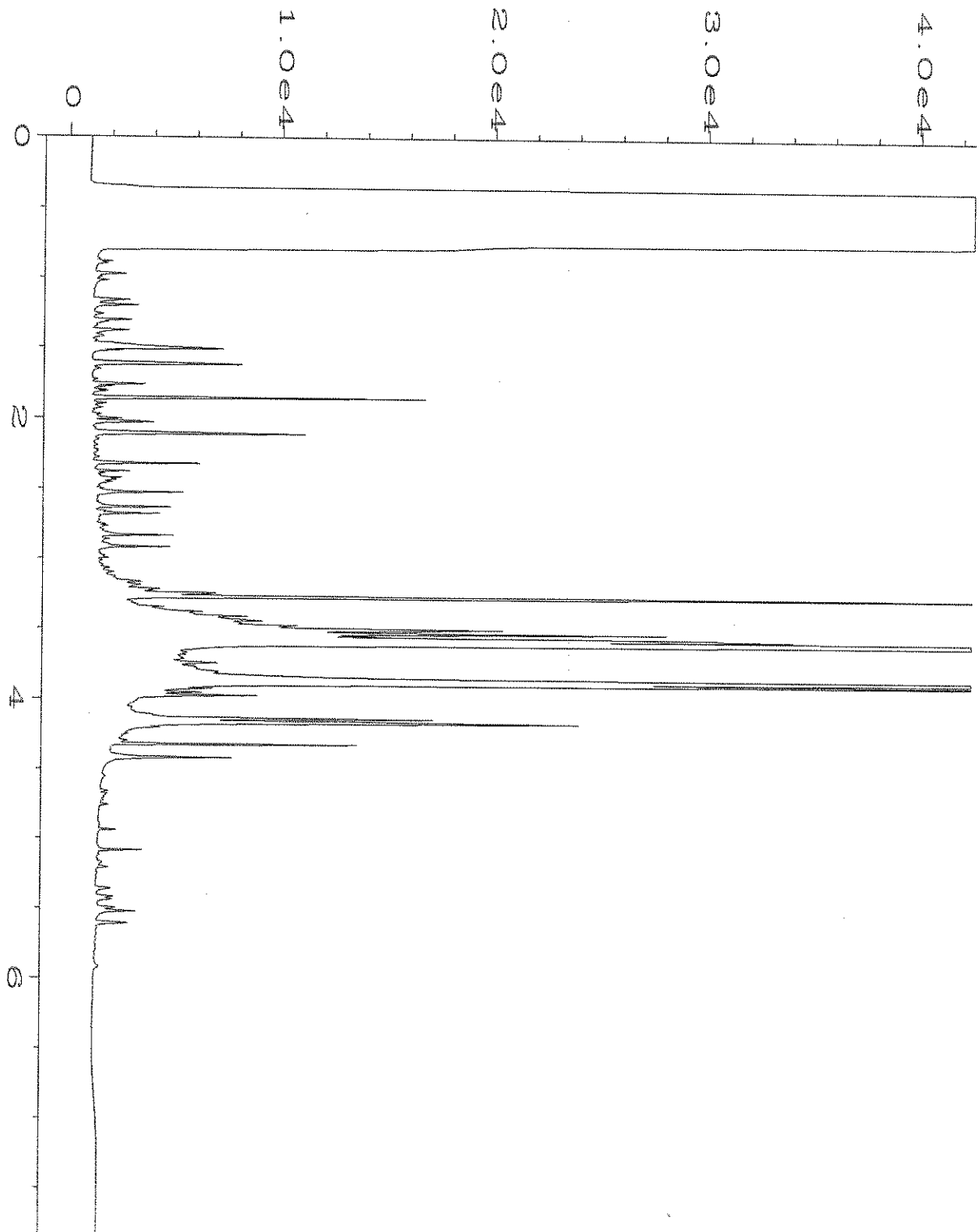
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\4\DATA\06-21-19\029F0701.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 29 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 906323-02 fs | Sequence Line | : 7 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 21 Jun 19 04:44 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 24 Jun 19 08:29 AM | | |



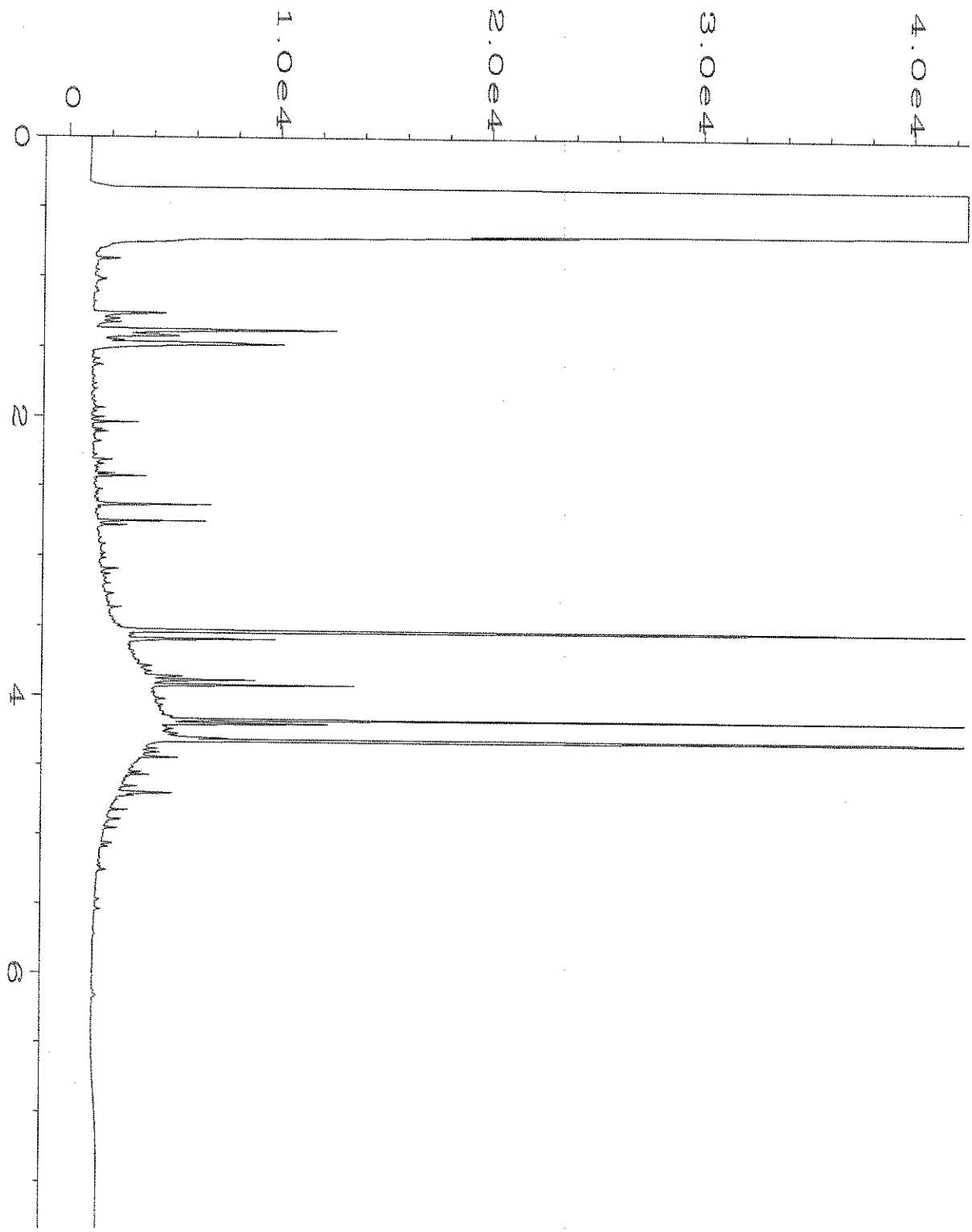
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\4\DATA\06-21-19\030F0701.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 30 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 906323-03 fs | Sequence Line | : 7 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 21 Jun 19 04:55 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 24 Jun 19 08:29 AM | | |



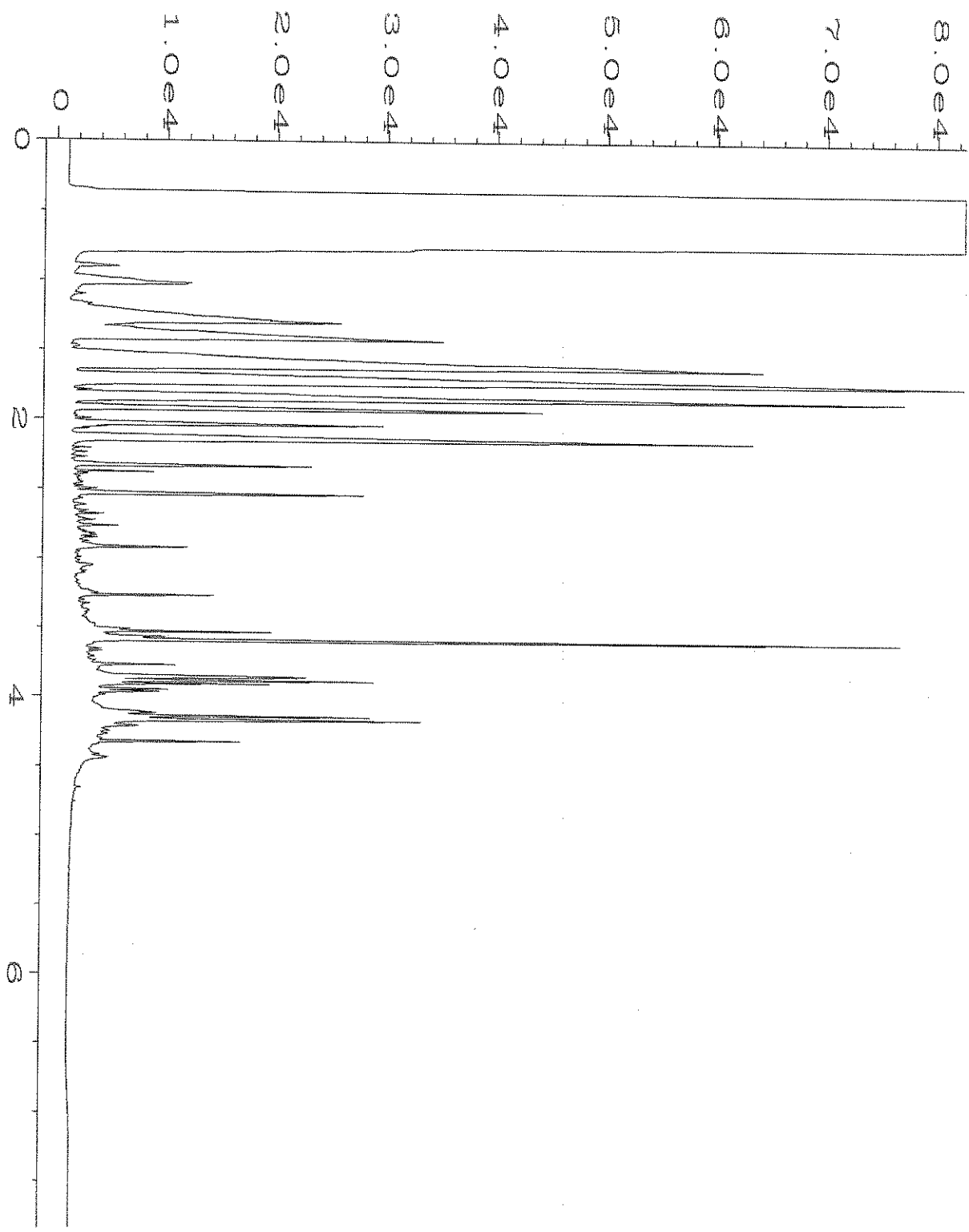
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\4\DATA\06-18-19\027F1001.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 27 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 906323-04 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 18 Jun 19 07:09 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 19 Jun 19 09:36 AM | | |



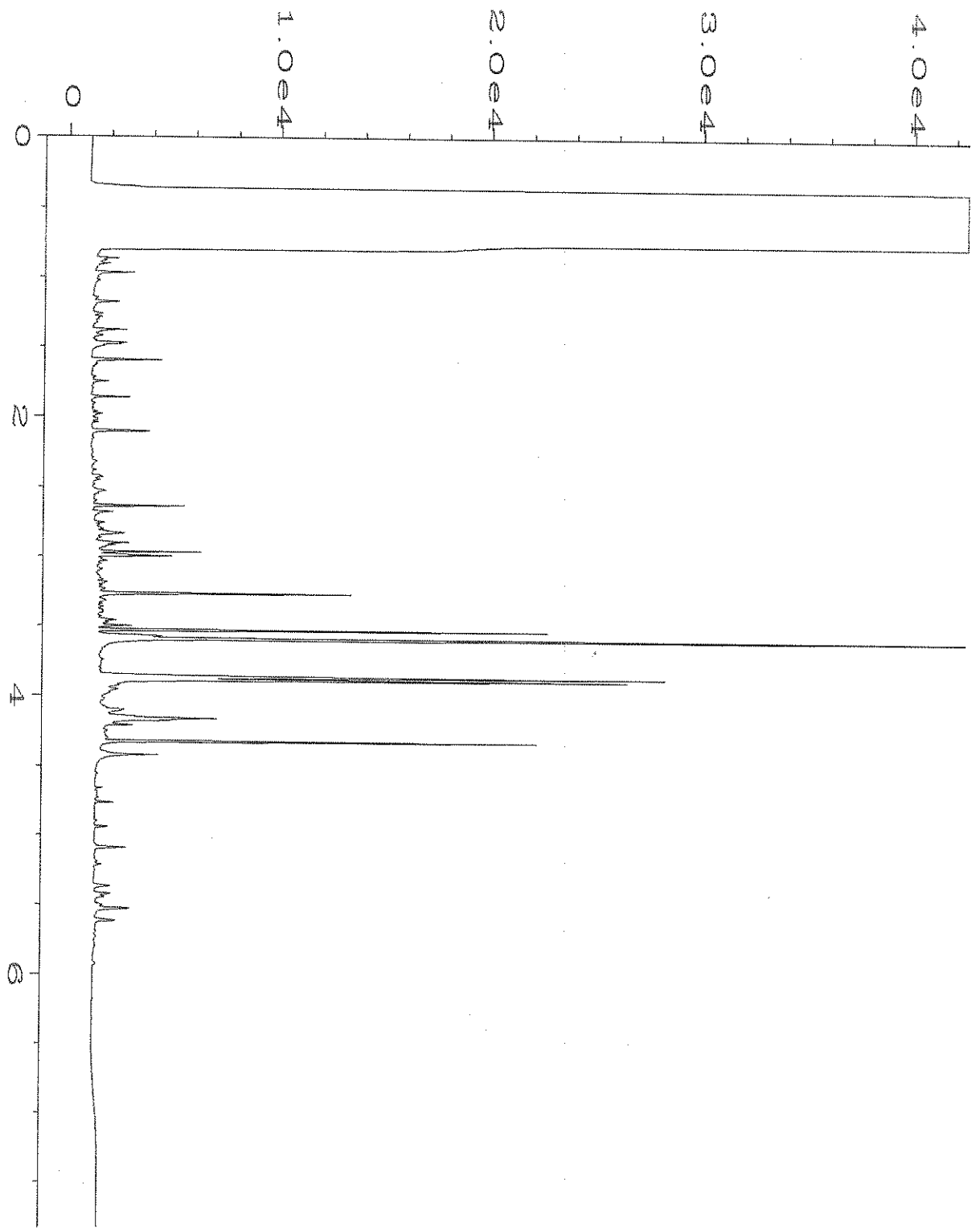
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\4\DATA\06-18-19\028F1001.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 28 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 906323-05 1/10 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 18 Jun 19 07:22 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 19 Jun 19 09:36 AM | | |



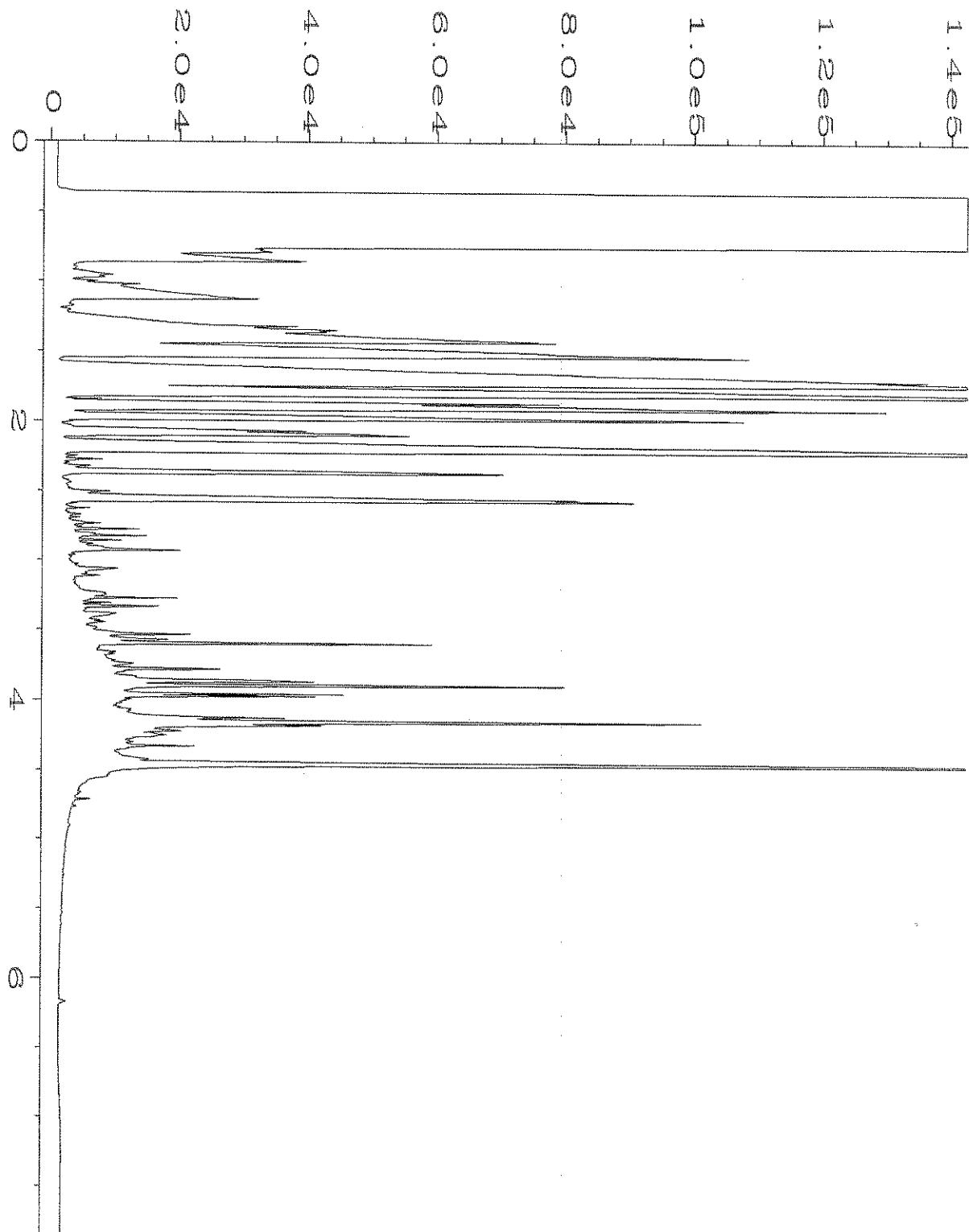
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\4\DATA\06-18-19\029F1001.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 29 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 906323-06 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 18 Jun 19 07:34 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 19 Jun 19 09:37 AM | | |



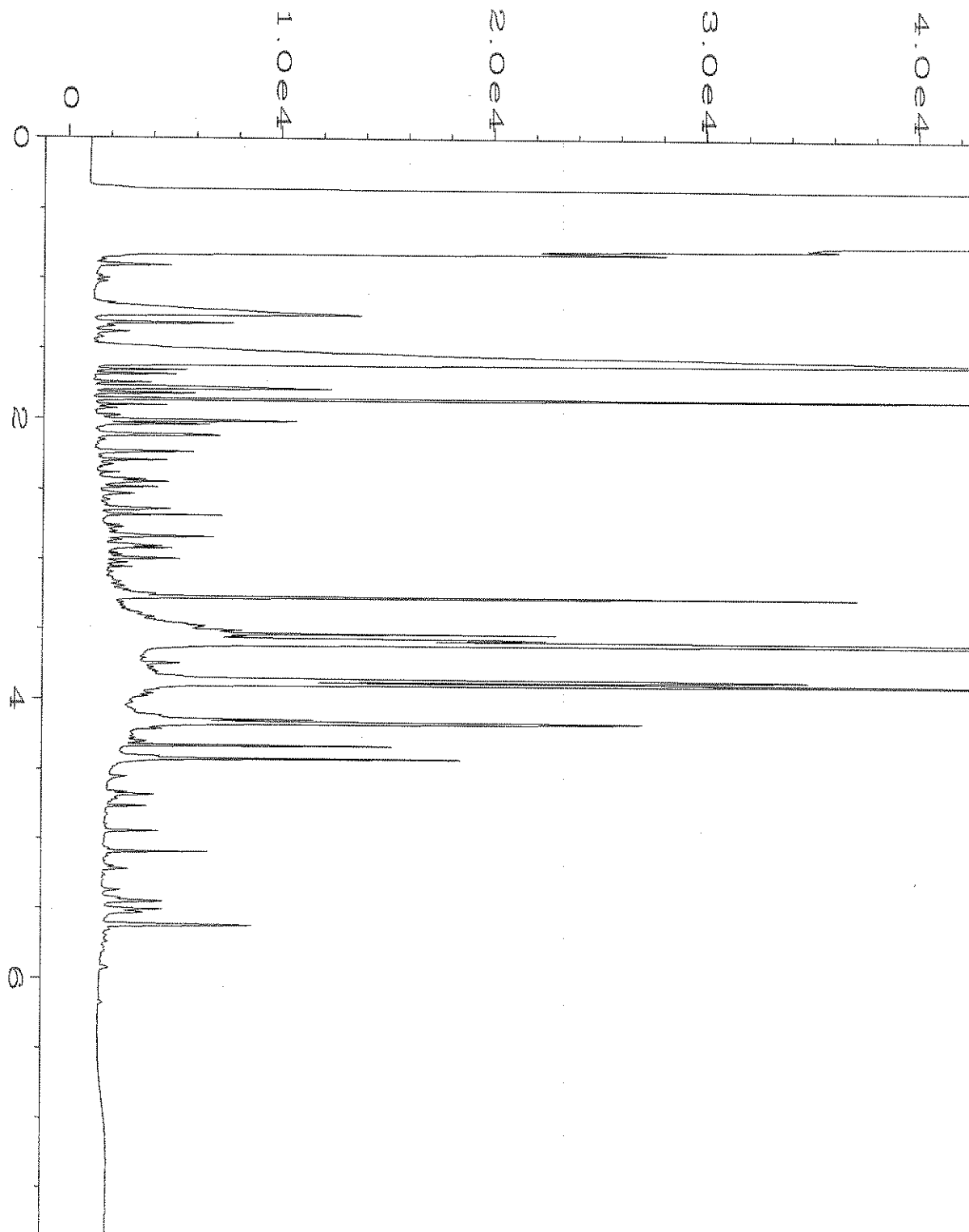
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\4\DATA\06-18-19\030F1001.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 30 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 906323-07 1/10 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 18 Jun 19 07:46 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 19 Jun 19 09:37 AM | | |



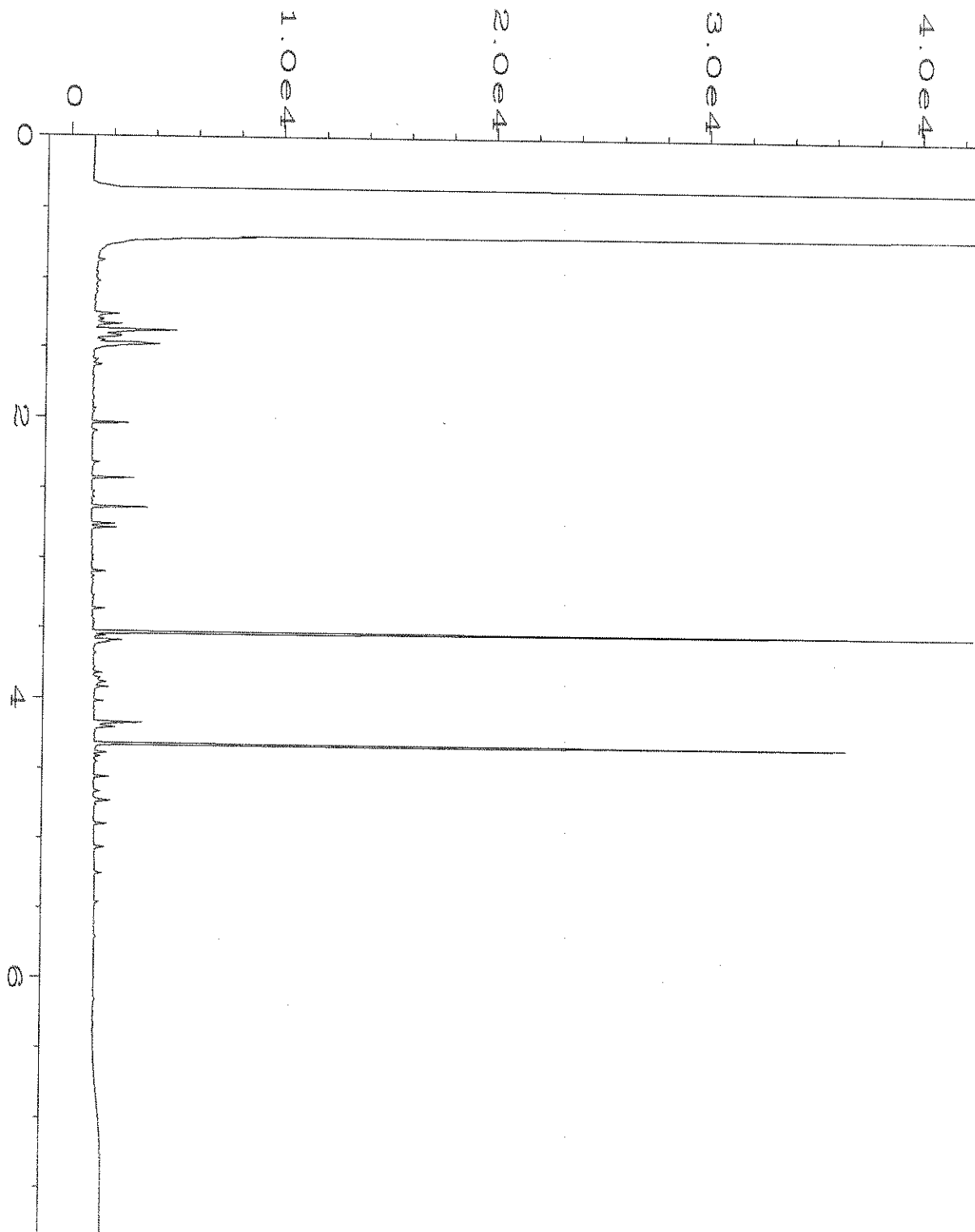
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\4\DATA\06-18-19\031F1001.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 31 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 906323-08 1/10 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 18 Jun 19 07:58 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 19 Jun 19 09:37 AM | | |



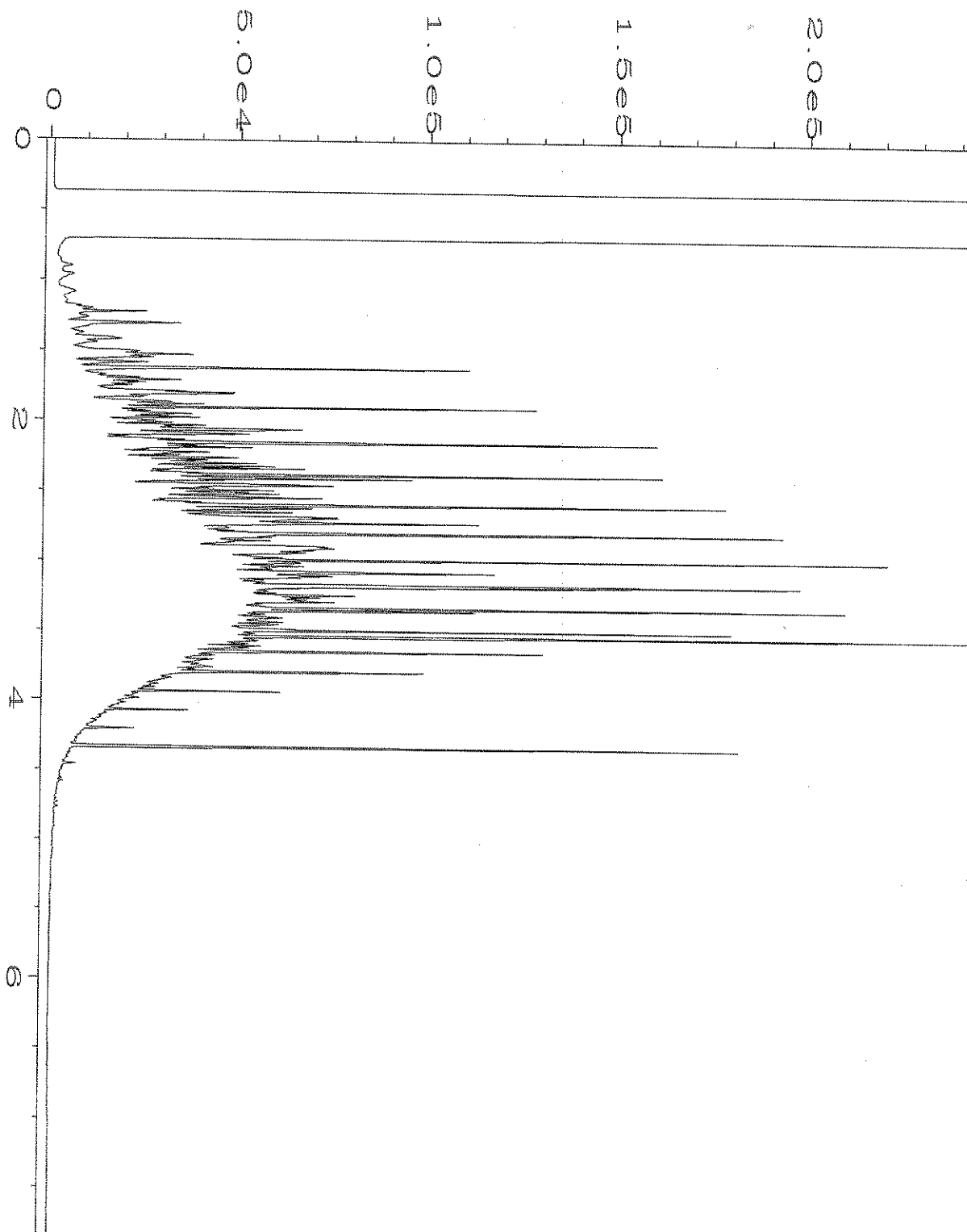
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\4\DATA\06-18-19\032F1001.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 32 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 906323-09 1/10 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 18 Jun 19 08:10 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 19 Jun 19 09:38 AM | | |



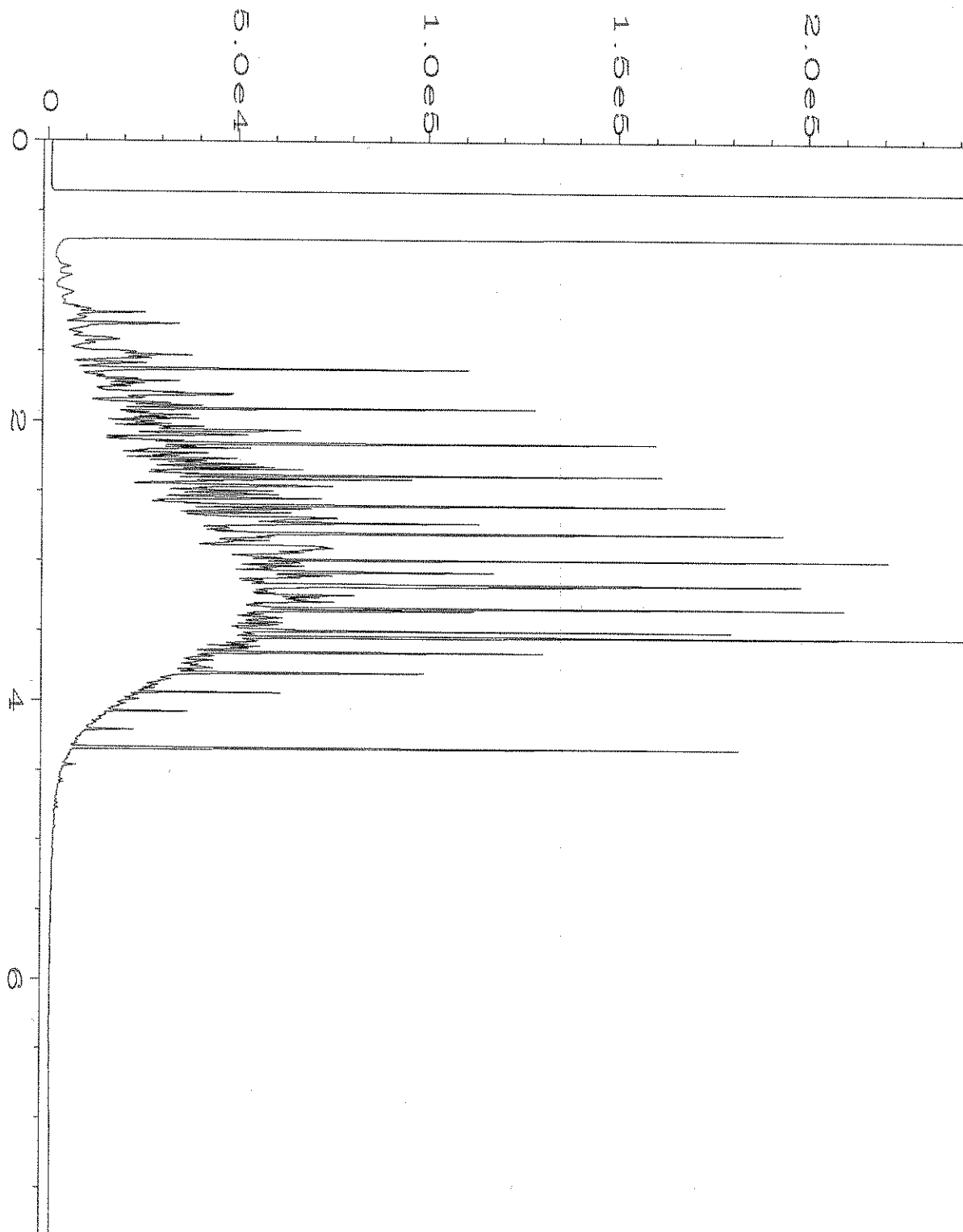
| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\4\DATA\06-18-19\033F1001.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 33 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 906323-10 1/10 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 18 Jun 19 08:22 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 19 Jun 19 09:38 AM | | |



| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\4\DATA\06-18-19\034F1001.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 34 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 906323-11 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 18 Jun 19 08:34 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 19 Jun 19 09:38 AM | | |



| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\4\DATA\06-18-19\005F0501.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 5 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 1000 Dx 57-78B | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 18 Jun 19 02:55 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 19 Jun 19 09:35 AM | | |



| | | | |
|--------------------|--|--------------------|---------------|
| Data File Name | : C:\HPCHEM\4\DATA\06-18-19\005F0501.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 5 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 1000 Dx 57-78B | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 18 Jun 19 02:55 PM | Analysis Method | : DEFAULT.MTH |
| Report Created on: | 19 Jun 19 09:35 AM | | |

SAMPLE CHAIN OF CUSTODY

906323

ME 06/17/19

vww/BOB/ALS

Send Report To Tom Cameron cc: Logan Schumacher
 Company SoundEarth Strategies
 Address 2811 Fairview Ave E, Suite 2000
 City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) Sarah Welter

PROJECT NAME/NO. Troy Laundry Property PO # 0731-004-05

REMARKS EIM Y

Page # 1

TURNAROUND TIME
Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | GRPH by NWTPH-Gx | BTEX by EPA 8021B | DRPH/ORPH by NWTPH-Dx | cVOCs by EPA 8260C | Methane, Ethane, Ethene by RSK175 | Sulfate, Nitrate, Alkalinity by SM1845/SM2320B | Total Fe and Mn by EPA 200.8 | Fe ²⁺ by SM 3500 | TOC By EPA 415.1 | Notes |
|---------------|-----------------|--------------|-------------------|--------------|--------------|--------|-----------|------------------|-------------------|-----------------------|--------------------|-----------------------------------|--|------------------------------|-----------------------------|------------------|-------|
| MW25-20190615 | MW25 | - | 01 ^A N | 6/15/19 | 0818 | W | 14 | X | X | X | X | X | X | X | X | X | |
| MW19-20190615 | MW19 | - | 02 ^A M | | 0824 | W | 13 | X | X | X | X | X | X | X | X | X | |
| MW18-20190615 | MW18 | - | 03 ^A N | | 0935 | W | 14 | X | X | X | X | X | X | X | X | X | |
| MW17-20190615 | MW17 | - | 04 ^A N | | 1030 | W | 7 | X | X | X | X | | | X | X | X | |
| MW24-20190615 | MW24 | - | 05 ^A N | | 1120 | W | 14 | X | X | X | X | X | X | X | X | X | |
| MW20-20190615 | MW20 | - | 06 ^A N | | 1120 | W | 7 | X | X | X | X | X | X | X | X | X | |
| MW21-20190615 | MW21 | - | 07 ^A K | | 1232 | W | 11 | X | X | X | X | X | | | | X | |
| MW99-20190615 | MW99 | - | 08 ^A G | | 1200 | W | 7 | X | X | X | X | | | | | | |
| MW22-20190615 | MW22 | - | 09 ^A N | | 1310 | W | 14 | X | X | X | X | X | X | X | X | X | |
| MW23-20190615 | MW23 | - | 10 ^A N | | 1410 | W | 14 | X | X | X | X | X | X | X | X | X | |
| IW91-20190615 | IW91 | - | 11 ^A G | | 1420 | W | 7 | 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: <u>Sarah Welter</u> | <u>Sarah Welter</u> | <u>SES</u> | <u>6/17/19</u> | <u>930</u> |
| Received by: <u>[Signature]</u> | <u>WILSON VANIGYAS</u> | <u>FIDEX</u> | <u>6-17-19</u> | <u>930</u> |
| Relinquished by: <u>[Signature]</u> | <u>Liz Webber-Bryce</u> | <u>FBI</u> | <u>6/17/19</u> | <u>1100</u> |
| Received by: <u>[Signature]</u> | | | | <u>4</u> |

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

June 26, 2019

Tom Cammarata, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Cammarata:

Included are the results from the testing of material submitted on June 17, 2019 from the SOU_0731-004-05_ 20190617, F&BI 906324 project. There are 13 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: Logan Schumacher
SOU0626R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 17, 2019 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-05_ 20190617, F&BI 906324 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 906324 -01 | IW06-20190615 |
| 906324 -02 | IW04-20190615 |
| 906324 -03 | IW50-20190615 |
| 906324 -04 | IW61-20190615 |

Samples IW04-20190615, IW50-20190615, and IW61-20190615 were sent to Fremont Analytical for nitrate, sulfate, alkalinity, TOC, and ferrous iron analysis. In addition, samples IW50-20190615 and IW61-20190615 were sent to Fremont for dissolved gasses analysis. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|---------------|-------------|--------------------------|
| Client ID: | IW04-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/18/19 | Lab ID: | 906324-02 x20 |
| Date Analyzed: | 06/19/19 | Data File: | 906324-02 x20.048 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | 17,900 |
| Manganese | 12,900 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|---------------|-------------|--------------------------|
| Client ID: | IW50-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/18/19 | Lab ID: | 906324-03 x10 |
| Date Analyzed: | 06/18/19 | Data File: | 906324-03 x10.128 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | 7,550 |
| Manganese | 9,670 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|---------------|-------------|--------------------------|
| Client ID: | IW61-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/18/19 | Lab ID: | 906324-04 x20 |
| Date Analyzed: | 06/19/19 | Data File: | 906324-04 x20.049 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | 25,500 |
| Manganese | 11,800 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|----------------|-------------|--------------------------|
| Client ID: | Method Blank | Client: | SoundEarth Strategies |
| Date Received: | Not Applicable | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/18/19 | Lab ID: | I9-375 mb |
| Date Analyzed: | 06/18/19 | Data File: | I9-375 mb.095 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Iron | <50 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | IW06-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906324-01 |
| Date Analyzed: | 06/19/19 | Data File: | 061948.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 57 | 121 |
| Toluene-d8 | 97 | 63 | 127 |
| 4-Bromofluorobenzene | 96 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | 1.7 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | IW04-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906324-02 |
| Date Analyzed: | 06/19/19 | Data File: | 061949.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 57 | 121 |
| Toluene-d8 | 97 | 63 | 127 |
| 4-Bromofluorobenzene | 96 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | 1.0 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 1.7 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | IW50-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906324-03 |
| Date Analyzed: | 06/19/19 | Data File: | 061950.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 57 | 121 |
| Toluene-d8 | 95 | 63 | 127 |
| 4-Bromofluorobenzene | 94 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | 7.1 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 54 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | 2.0 |
| Tetrachloroethene | 5.2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|---------------|-------------|--------------------------|
| Client Sample ID: | IW61-20190615 | Client: | SoundEarth Strategies |
| Date Received: | 06/17/19 | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 906324-04 |
| Date Analyzed: | 06/19/19 | Data File: | 061951.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 57 | 121 |
| Toluene-d8 | 98 | 63 | 127 |
| 4-Bromofluorobenzene | 118 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | 2.9 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | 71 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | 2.4 |
| Tetrachloroethene | 13 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|----------------|-------------|--------------------------|
| Client Sample ID: | Method Blank | Client: | SoundEarth Strategies |
| Date Received: | Not Applicable | Project: | SOU_0731-004-05_20190617 |
| Date Extracted: | 06/19/19 | Lab ID: | 09-1429 mb |
| Date Analyzed: | 06/19/19 | Data File: | 061911.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | MS/AEN |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 57 | 121 |
| Toluene-d8 | 96 | 63 | 127 |
| 4-Bromofluorobenzene | 92 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.2 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <1 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/17/19

Project: SOU_0731-004-05_ 20190617, F&BI 906324

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

Laboratory Code: 906321-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|-----------------|-------------|---------------|---------------------|----------------------|---------------------|----------------|
| Iron | ug/L (ppb) | 100 | 152 | 89 | 85 | 70-130 | 5 |
| Manganese | ug/L (ppb) | 20 | 30.6 | 101 | 95 | 70-130 | 6 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|-----------------|-------------|----------------------|---------------------|
| Iron | ug/L (ppb) | 100 | 99 | 85-115 |
| Manganese | ug/L (ppb) | 20 | 95 | 85-115 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/19

Date Received: 06/17/19

Project: SOU_0731-004-05_ 20190617, F&BI 906324

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

Laboratory Code: 906324-03 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Acceptance Criteria |
|--------------------------|-----------------|-------------|---------------|---------------------|---------------------|
| Vinyl chloride | ug/L (ppb) | 50 | 7.1 | 116 | 36-166 |
| Chloroethane | ug/L (ppb) | 50 | <1 | 108 | 46-160 |
| 1,1-Dichloroethene | ug/L (ppb) | 50 | <1 | 106 | 60-136 |
| Methylene chloride | ug/L (ppb) | 50 | <5 | 107 | 67-132 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 50 | <1 | 109 | 72-129 |
| 1,1-Dichloroethane | ug/L (ppb) | 50 | <1 | 105 | 70-128 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 50 | 54 | 108 b | 71-127 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 50 | <1 | 97 | 48-149 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 50 | <1 | 109 | 60-146 |
| Trichloroethene | ug/L (ppb) | 50 | 2.0 | 99 | 66-135 |
| Tetrachloroethene | ug/L (ppb) | 50 | 5.2 | 103 | 10-226 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|--------------------------|-----------------|-------------|----------------------|-----------------------|---------------------|----------------|
| Vinyl chloride | ug/L (ppb) | 50 | 131 | 118 | 50-154 | 10 |
| Chloroethane | ug/L (ppb) | 50 | 119 | 107 | 58-146 | 11 |
| 1,1-Dichloroethene | ug/L (ppb) | 50 | 116 | 105 | 67-136 | 10 |
| Methylene chloride | ug/L (ppb) | 50 | 115 | 104 | 39-148 | 10 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 50 | 118 | 107 | 68-128 | 10 |
| 1,1-Dichloroethane | ug/L (ppb) | 50 | 112 | 104 | 79-121 | 7 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 50 | 116 | 108 | 80-123 | 7 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 50 | 102 | 101 | 73-132 | 1 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 50 | 118 | 108 | 81-125 | 9 |
| Trichloroethene | ug/L (ppb) | 50 | 105 | 101 | 79-113 | 4 |
| Tetrachloroethene | ug/L (ppb) | 50 | 107 | 102 | 76-121 | 5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

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



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

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 906324
Work Order Number: 1906195

June 24, 2019

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 6/17/2019 for the analyses presented in the following report.

Dissolved Gases by RSK-175
Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)

CLIENT: Friedman & Bruya
Project: 906324
Work Order: 1906195

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|----------------------|-------------------------|----------------------------|---------------------------|
| 1906195-001 | IW04-20190615 | 06/15/2019 10:17 AM | 06/17/2019 1:45 PM |
| 1906195-002 | IW50-20190615 | 06/15/2019 12:05 PM | 06/17/2019 1:45 PM |
| 1906195-003 | IW61-20190615 | 06/15/2019 1:25 PM | 06/17/2019 1:45 PM |

CLIENT: Friedman & Bruya

Project: 906324

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 (<20%RSD, <20% Drift or minimum RRF)
- 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
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Friedman & Bruya

Collection Date: 6/15/2019 10:17:00 AM

Project: 906324

Lab ID: 1906195-001

Matrix: Water

Client Sample ID: IW04-20190615

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Ion Chromatography by EPA Method 300.0

Batch ID: 24947 Analyst: SS

| | | | | | | |
|----------------|-------|-------|---|------|---|-----------------------|
| Nitrate (as N) | ND | 0.100 | H | mg/L | 1 | 6/18/2019 12:38:00 PM |
| Sulfate | 0.759 | 0.300 | | mg/L | 1 | 6/18/2019 12:38:00 PM |

Total Organic Carbon by SM 5310C

Batch ID: R52199 Analyst: GM

| | | | | | | |
|----------------------|-----|------|---|------|---|-----------------------|
| Total Organic Carbon | 148 | 2.50 | D | mg/L | 5 | 6/19/2019 11:14:00 AM |
|----------------------|-----|------|---|------|---|-----------------------|

Total Alkalinity by SM 2320B

Batch ID: R52247 Analyst: WF

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 611 | 2.50 | | mg/L | 1 | 6/21/2019 1:25:44 PM |
|---|-----|------|--|------|---|----------------------|

Ferrous Iron by SM3500-Fe B

Batch ID: R52165 Analyst: GM

| | | | | | | |
|--------------|--------|--------|---|------|---|----------------------|
| Ferrous Iron | 0.0865 | 0.0500 | H | mg/L | 1 | 6/19/2019 5:00:00 PM |
|--------------|--------|--------|---|------|---|----------------------|



Client: Friedman & Bruya

Collection Date: 6/15/2019 12:05:00 PM

Project: 906324

Lab ID: 1906195-002

Matrix: Water

Client Sample ID: IW50-20190615

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R52203 Analyst: SG

| | | | | | | |
|---------|------|-------|---|------|----|----------------------|
| Methane | 3.11 | 0.173 | D | mg/L | 20 | 6/19/2019 5:00:00 PM |
| Ethene | ND | 0.303 | D | mg/L | 20 | 6/19/2019 5:00:00 PM |
| Ethane | ND | 0.324 | D | mg/L | 20 | 6/19/2019 5:00:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 24947 Analyst: SS

| | | | | | | |
|----------------|------|-------|---|------|---|----------------------|
| Nitrate (as N) | ND | 0.100 | H | mg/L | 1 | 6/18/2019 2:11:00 PM |
| Sulfate | 11.0 | 0.300 | | mg/L | 1 | 6/18/2019 2:11:00 PM |

Total Organic Carbon by SM 5310C

Batch ID: R52199 Analyst: GM

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 7.56 | 0.500 | | mg/L | 1 | 6/18/2019 6:41:00 PM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by SM 2320B

Batch ID: R52247 Analyst: WF

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 299 | 2.50 | | mg/L | 1 | 6/21/2019 1:25:44 PM |
|---|-----|------|--|------|---|----------------------|

Ferrous Iron by SM3500-Fe B

Batch ID: R52165 Analyst: GM

| | | | | | | |
|--------------|------|-------|----|------|----|----------------------|
| Ferrous Iron | 7.08 | 0.500 | DH | mg/L | 10 | 6/19/2019 5:00:00 PM |
|--------------|------|-------|----|------|----|----------------------|



Client: Friedman & Bruya

Collection Date: 6/15/2019 1:25:00 PM

Project: 906324

Lab ID: 1906195-003

Matrix: Water

Client Sample ID: IW61-20190615

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R52203 Analyst: SG

| | | | | | | |
|---------|------|-------|---|------|----|----------------------|
| Methane | 2.44 | 0.173 | D | mg/L | 20 | 6/19/2019 5:03:00 PM |
| Ethene | ND | 0.303 | D | mg/L | 20 | 6/19/2019 5:03:00 PM |
| Ethane | ND | 0.324 | D | mg/L | 20 | 6/19/2019 5:03:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 24947 Analyst: SS

| | | | | | | |
|----------------|-------|-------|---|------|---|----------------------|
| Nitrate (as N) | ND | 0.100 | H | mg/L | 1 | 6/18/2019 2:34:00 PM |
| Sulfate | 0.338 | 0.300 | | mg/L | 1 | 6/18/2019 2:34:00 PM |

Total Organic Carbon by SM 5310C

Batch ID: R52199 Analyst: GM

| | | | | | | |
|----------------------|-----|------|---|------|---|-----------------------|
| Total Organic Carbon | 140 | 2.50 | D | mg/L | 5 | 6/18/2019 11:58:00 PM |
|----------------------|-----|------|---|------|---|-----------------------|

Total Alkalinity by SM 2320B

Batch ID: R52247 Analyst: WF

| | | | | | | |
|------------------------------|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO3) | 429 | 2.50 | | mg/L | 1 | 6/21/2019 1:25:44 PM |
|------------------------------|-----|------|--|------|---|----------------------|

Ferrous Iron by SM3500-Fe B

Batch ID: R52165 Analyst: GM

| | | | | | | |
|--------------|------|------|----|------|----|----------------------|
| Ferrous Iron | 30.5 | 2.50 | DH | mg/L | 50 | 6/19/2019 5:00:00 PM |
|--------------|------|------|----|------|----|----------------------|

Work Order: 1906195
CLIENT: Friedman & Bruya
Project: 906324

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-R52247 | SampType: MBLK | Units: mg/L | Prep Date: 6/21/2019 | RunNo: 52247 | | | | | | | |
| Client ID: MBLKW | Batch ID: R52247 | | Analysis Date: 6/21/2019 | SeqNo: 1031932 | | | | | | | |
| 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-R52247 | SampType: LCS | Units: mg/L | Prep Date: 6/21/2019 | RunNo: 52247 | | | | | | | |
| Client ID: LCSW | Batch ID: R52247 | | Analysis Date: 6/21/2019 | SeqNo: 1031933 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 104 | 2.50 | 100.0 | 0 | 104 | 80 | 120 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906195-001BDUP | SampType: DUP | Units: mg/L | Prep Date: 6/21/2019 | RunNo: 52247 | | | | | | | |
| Client ID: IW04-20190615 | Batch ID: R52247 | | Analysis Date: 6/21/2019 | SeqNo: 1031935 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 618 | 2.50 | | | | | | 611.0 | 1.06 | 20 | |

Work Order: 1906195
CLIENT: Friedman & Bruya
Project: 906324

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-R52165 | SampType: MBLK | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: MBLKW | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1029999 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron ND 0.0500

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-R52165 | SampType: LCS | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: LCSW | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1030000 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron 0.406 0.0500 0.4000 0 101 80 120

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906196-001ADUP | SampType: DUP | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: BATCH | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1030007 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron 0.922 0.0500 1.023 10.4 20 H

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906196-001AMS | SampType: MS | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: BATCH | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1030008 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron 1.29 0.0500 0.4000 1.023 66.9 80 120 SH

NOTES:

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

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906196-001AMSD | SampType: MSD | Units: mg/L | Prep Date: 6/19/2019 | RunNo: 52165 | | | | | | | |
| Client ID: BATCH | Batch ID: R52165 | | Analysis Date: 6/19/2019 | SeqNo: 1030009 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Ferrous Iron 1.29 0.0500 0.4000 1.023 67.5 80 120 1.291 0.182 20 SH

NOTES:

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

Work Order: 1906195
 CLIENT: Friedman & Bruya
 Project: 906324

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

| Sample ID: MB-24947 | SampType: MBLK | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|----------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: 24947 | | Analysis Date: 6/17/2019 | SeqNo: 1029908 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | |
|----------------|----|-------|
| Nitrate (as N) | ND | 0.100 |
| Sulfate | ND | 0.300 |

| Sample ID: LCS1-24947 | SampType: LCS | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | Analysis Date: 6/17/2019 | SeqNo: 1029909 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|
| Nitrate (as N) | 0.739 | 0.100 | 0.7500 | 0 | 98.5 | 90 | 110 |
| Sulfate | 3.65 | 0.300 | 3.750 | 0 | 97.4 | 90 | 110 |

| Sample ID: LCS2-24947 | SampType: LCS | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | Analysis Date: 6/18/2019 | SeqNo: 1029925 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|
| Nitrate (as N) | 0.725 | 0.100 | 0.7500 | 0 | 96.7 | 90 | 110 |
| Sulfate | 3.57 | 0.300 | 3.750 | 0 | 95.2 | 90 | 110 |

| Sample ID: LCS3-24947 | SampType: LCS | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | Analysis Date: 6/18/2019 | SeqNo: 1029926 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|
| Nitrate (as N) | 0.725 | 0.100 | 0.7500 | 0 | 96.7 | 90 | 110 |
| Sulfate | 3.55 | 0.300 | 3.750 | 0 | 94.6 | 90 | 110 |

| Sample ID: LCS4-24947 | SampType: LCS | Units: mg/L | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | | | |
|------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | Analysis Date: 6/18/2019 | SeqNo: 1029927 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|
| Nitrate (as N) | 0.732 | 0.100 | 0.7500 | 0 | 97.6 | 90 | 110 |
|----------------|-------|-------|--------|---|------|----|-----|

Work Order: 1906195
 CLIENT: Friedman & Bruya
 Project: 906324

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

| Sample ID: LCS4-24947 | SampType: LCS | Units: mg/L | | | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | |
|------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24947 | | | | Analysis Date: 6/18/2019 | SeqNo: 1029927 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfate 3.73 0.300 3.750 0 99.4 90 110

| Sample ID: 1906195-001BDUP | SampType: DUP | Units: mg/L | | | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: IW04-20190615 | Batch ID: 24947 | | | | Analysis Date: 6/18/2019 | SeqNo: 1029933 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrate (as N) ND 0.100 0 20 H
 Sulfate 0.749 0.300 0.7590 1.33 20

| Sample ID: 1906195-001BMS | SampType: MS | Units: mg/L | | | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: IW04-20190615 | Batch ID: 24947 | | | | Analysis Date: 6/18/2019 | SeqNo: 1029934 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrate (as N) 0.787 0.100 0.7500 0.09000 92.9 80 120 H
 Sulfate 4.20 0.300 3.750 0.7590 91.8 80 120

| Sample ID: 1906195-001BMSD | SampType: MSD | Units: mg/L | | | Prep Date: 6/17/2019 | RunNo: 52162 | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: IW04-20190615 | Batch ID: 24947 | | | | Analysis Date: 6/18/2019 | SeqNo: 1029935 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrate (as N) 0.784 0.100 0.7500 0.09000 92.5 80 120 0.7870 0.382 20 H
 Sulfate 4.18 0.300 3.750 0.7590 91.3 80 120 4.203 0.525 20

Work Order: 1906195
 CLIENT: Friedman & Bruya
 Project: 906324

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: MBLK-52199 | SampType: MBLK | Units: mg/L | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | | | |
| Client ID: MBLKW | Batch ID: R52199 | | Analysis Date: 6/18/2019 | SeqNo: 1030537 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon ND 0.500

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-52199 | SampType: LCS | Units: mg/L | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | | | |
| Client ID: LCSW | Batch ID: R52199 | | Analysis Date: 6/18/2019 | SeqNo: 1030538 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon 5.14 0.500 5.000 0 103 80 120

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906179-001DDUP | SampType: DUP | Units: mg/L | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | | | |
| Client ID: BATCH | Batch ID: R52199 | | Analysis Date: 6/18/2019 | SeqNo: 1030540 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon 1.14 0.500 1.129 0.618 20

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906179-001DMS | SampType: MS | Units: mg/L | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | | | |
| Client ID: BATCH | Batch ID: R52199 | | Analysis Date: 6/18/2019 | SeqNo: 1030541 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon 6.48 0.500 5.000 1.129 107 70 130

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 1906179-001DMSD | SampType: MSD | Units: mg/L | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | | | |
| Client ID: BATCH | Batch ID: R52199 | | Analysis Date: 6/18/2019 | SeqNo: 1030542 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon 6.28 0.500 5.000 1.129 103 70 130 6.478 3.02 30

Work Order: 1906195
CLIENT: Friedman & Bruya
Project: 906324

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|-------|----------|------|
| Sample ID: 1906197-001DDUP | SampType: DUP | Units: mg/L | | | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | |
| Client ID: BATCH | Batch ID: R52199 | | | | Analysis Date: 6/18/2019 | SeqNo: 1030549 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 26.0 | 0.500 | | | | | | 25.77 | 0.927 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Sample ID: 1906197-001DMS | SampType: MS | Units: mg/L | | | Prep Date: 6/18/2019 | RunNo: 52199 | | | | | |
| Client ID: BATCH | Batch ID: R52199 | | | | Analysis Date: 6/18/2019 | SeqNo: 1030550 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 31.0 | 0.500 | 5.000 | 25.77 | 104 | 70 | 130 | | | | |

Work Order: 1906195
 CLIENT: Friedman & Bruya
 Project: 906324

QC SUMMARY REPORT
Dissolved Gases by RSK-175

| Sample ID: LCS-R52203 | SampType: LCS | Units: mg/L | | | | Prep Date: 6/19/2019 | RunNo: 52203 | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------------------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: R52203 | | | | | Analysis Date: 6/19/2019 | SeqNo: 1030678 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|------|----|-----|--|--|--|--|
| Methane | 1,020 | 0.00863 | 1,000 | 0 | 102 | 70 | 130 | | | | |
| Ethene | 976 | 0.0151 | 1,000 | 0 | 97.6 | 70 | 130 | | | | |
| Ethane | 973 | 0.0162 | 1,000 | 0 | 97.3 | 70 | 130 | | | | |

| Sample ID: MB-R52203 | SampType: MBLK | Units: mg/L | | | | Prep Date: 6/19/2019 | RunNo: 52203 | | | | |
|-----------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------------------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: R52203 | | | | | Analysis Date: 6/19/2019 | SeqNo: 1030679 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00863 | | | | | | | | | |
| Ethene | ND | 0.0151 | | | | | | | | | |
| Ethane | ND | 0.0162 | | | | | | | | | |

| Sample ID: 1906152-001AREP | SampType: REP | Units: mg/L | | | | Prep Date: 6/19/2019 | RunNo: 52203 | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------------------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: R52203 | | | | | Analysis Date: 6/19/2019 | SeqNo: 1030653 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------|------|-------|--|--|--|--|--|-------|------|----|----|
| Methane | 4.81 | 0.173 | | | | | | 4.601 | 4.43 | 30 | DE |
| Ethene | ND | 0.303 | | | | | | 0 | | 30 | D |
| Ethane | ND | 0.324 | | | | | | 0 | | 30 | D |

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument.

Client Name: **FB**
 Logged by: **Clare Griggs**

Work Order Number: **1906195**
 Date Received: **6/17/2019 1:45:00 PM**

Chain of Custody

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

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C * Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. 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"/> | | |

19. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Cooler | 9.6 |
| Sample | 8.7 |

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

1906195

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 3012 16th Ave W
 City, State, ZIP Seattle, WA 98119
 Phone # (206) 285-8282 Fax # (206) 283-5044

| | |
|-------------------------------------|----------------------|
| SUBCONTRACTER <u>Fremont</u> | |
| PROJECT NAME/NO. <u>906324</u> | PO # <u>B-297</u> |
| REMARKS Please Email Results | |


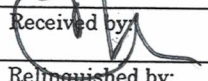
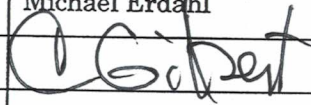
Page # 1 of 1

| | |
|--|--|
| TURNAROUND TIME | |
| <input checked="" type="checkbox"/> Standard (2 Weeks) | |
| <input type="checkbox"/> RUSH | |
| Rush charges authorized by: _____ | |
| SAMPLE DISPOSAL | |
| <input type="checkbox"/> Dispose after 30 days | |
| <input type="checkbox"/> Return samples | |
| <input type="checkbox"/> Will call with instructions | |

Page 16 of 16

| Sample ID | Lab ID | Date Sampled | Time Sampled | Matrix | # of jars | ANALYSES REQUESTED | | | | | | | | | | Notes | | | | | |
|---------------|--------|--------------|--------------|------------------|-----------|--------------------|-----|-----|---|---------|------------|---------|--------------|-----|---|-------|--|--|--|--|--|
| | | | | | | Dioxins/Furans | EPH | VPH | RSK175 <small>Ethene Diss Methane Ethane</small> | Sulfate | Alkalinity | Nitrate | Ferrous Iron | TOC | | | | | | | |
| IW04-20190615 | | 6/15/19 | 1017 | H ₂ O | | | | | | | | | | | | | | | | | |
| IW50-20190615 | | ↓ | 1205 | ↓ | | | | | X | X | X | X | X | X | X | | | | | | |
| IW61-20190615 | | ↓ | 1325 | ↓ | | | | | X | X | 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 | COMPANY | DATE | TIME |
|--|--|------------------|---------|-------|
| Relinquished by:  | Michael Erdahl | Friedman & Bruya | 6/17/19 | 12:06 |
| Received by:  |  | F&B | 6/17/19 | 1345 |
| Relinquished by: | | | | |
| Received by: | | | | |

SAMPLE CHAIN OF CUSTODY

ME 06-17-19

vw3

906324

| | | |
|--|---------------------|---|
| SAMPLERS (signature) <i>Sarah Wells</i> | | Page # 1 |
| PROJECT NAME/NO. Troy Laundry Property | PO # 0731-004-05 | TURNAROUND TIME ALB Standard (2 Weeks) RUSH Rush charges authorized by: |
| REMARKS | EIM Y | SAMPLE DISPOSAL <input checked="" type="checkbox"/> Dispose after 30 days Return samples Will call with instructions |

Send Report To Tom Cammarata cc: Logan Schumacher

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of jars | GRPH by NWTPH-Gx | BTEX by EPA 8021B | DRPH/ORPH by NWTPH-Dx | cVOCs by EPA 8260C | Methane, Ethane, Ethene by RSK175 | Sulfate, Nitrate, Alkalinity by SM1845/SM2320B | Total Fe and Mn by EPA 200.8 | Fe 2+ by SM 3500 | TOC By EPA 415.1 | Notes | |
|--------------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|------------------|-------------------|-----------------------|--------------------|-----------------------------------|--|------------------------------|------------------|------------------|-------|--|
| IW06-20190615 | IW06 | - | 01A | 6/15/19 | 0942 | W | 3 | | | | Y | | | | | | | |
| IW04-20190615 | IW04 | - | 02A-G | | 1017 | W | 7 | | | | Y | | Y | X | X | Y | | |
| IW50-20190615 | IW50 | - | 03A-J | | 1205 | W | 10 | | | | Y | X | Y | X | X | X | | |
| IW61-20190615 | IW61 | - | 04I | | 1325 | W | 10 | | | | Y | Y | X | X | X | X | | |
| <i>(Signature)</i> | | | | | | | | | | | | | | | | | | |

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 |
|--------------------|------------------|---------|---------|------|
| <i>Sarah Wells</i> | Sarah Wells | SES | 6/17/19 | 9:30 |
| <i>He</i> | WILSON VANOUAS | FDDX | 6-17-19 | 9:30 |
| <i>D. M. Ryan</i> | Liz Webber-Bryen | F?BI | 6/17/19 | 1100 |
| Received by: | | | | |

Samples received at 4 °C



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

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 906291
Work Order Number: 1906179

June 24, 2019

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 6/14/2019 for the analyses presented in the following report.

Dissolved Gases by RSK-175
Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)

CLIENT: Friedman & Bruya
Project: 906291
Work Order: 1906179

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|----------------------|-------------------------|----------------------------|---------------------------|
| 1906179-001 | MW26-20190614 | 06/14/2019 9:50 AM | 06/14/2019 4:41 PM |
| 1906179-002 | MW07-20190614 | 06/14/2019 10:50 AM | 06/14/2019 4:41 PM |
| 1906179-003 | MW04-20190614 | 06/14/2019 11:05 AM | 06/14/2019 4:41 PM |

CLIENT: Friedman & Bruya

Project: 906291

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 (<20%RSD, <20% Drift or minimum RRF)
- 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
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Friedman & Bruya

Collection Date: 6/14/2019 9:50:00 AM

Project: 906291

Lab ID: 1906179-001

Matrix: Water

Client Sample ID: MW26-20190614

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R52203 Analyst: SG

| | | | | | | |
|---------|------|-------|---|------|----|----------------------|
| Methane | 4.12 | 0.173 | D | mg/L | 20 | 6/19/2019 4:48:00 PM |
| Ethene | ND | 0.303 | D | mg/L | 20 | 6/19/2019 4:48:00 PM |
| Ethane | ND | 0.324 | D | mg/L | 20 | 6/19/2019 4:48:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 24928 Analyst: SS

| | | | | | | |
|----------------|------|-------|----|------|---|----------------------|
| Nitrate (as N) | 7.10 | 0.500 | DH | mg/L | 5 | 6/17/2019 1:42:00 PM |
| Nitrate (as N) | 7.86 | 0.100 | E | mg/L | 1 | 6/14/2019 6:37:00 PM |
| Sulfate | 45.0 | 1.50 | D | mg/L | 5 | 6/17/2019 1:42:00 PM |

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument.

Total Organic Carbon by SM 5310C

Batch ID: R52199 Analyst: GM

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 1.13 | 0.500 | | mg/L | 1 | 6/18/2019 4:27:00 PM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by SM 2320B

Batch ID: R52246 Analyst: WF

| | | | | | | |
|---|------|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 78.0 | 2.50 | | mg/L | 1 | 6/24/2019 1:25:36 PM |
|---|------|------|--|------|---|----------------------|

Ferrous Iron by SM3500-Fe B

Batch ID: R52152 Analyst: GM

| | | | | | | |
|--------------|-------|--------|--|------|---|----------------------|
| Ferrous Iron | 0.136 | 0.0500 | | mg/L | 1 | 6/14/2019 4:30:00 PM |
|--------------|-------|--------|--|------|---|----------------------|



Client: Friedman & Bruya

Collection Date: 6/14/2019 10:50:00 AM

Project: 906291

Lab ID: 1906179-002

Matrix: Water

Client Sample ID: MW07-20190614

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R52203 Analyst: SG

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00863 | | mg/L | 1 | 6/19/2019 4:51:00 PM |
| Ethene | ND | 0.0151 | | mg/L | 1 | 6/19/2019 4:51:00 PM |
| Ethane | ND | 0.0162 | | mg/L | 1 | 6/19/2019 4:51:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 24928 Analyst: SS

| | | | | | | |
|----------------|------|-------|----|------|----|----------------------|
| Nitrate (as N) | 29.1 | 2.00 | DH | mg/L | 20 | 6/17/2019 2:05:00 PM |
| Nitrate (as N) | 32.5 | 0.100 | E | mg/L | 1 | 6/14/2019 8:09:00 PM |
| Sulfate | 51.0 | 3.00 | D | mg/L | 10 | 6/17/2019 2:28:00 PM |

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument.

Total Organic Carbon by SM 5310C

Batch ID: R52199 Analyst: GM

| | | | | | | |
|----------------------|-------|-------|--|------|---|----------------------|
| Total Organic Carbon | 0.869 | 0.500 | | mg/L | 1 | 6/18/2019 5:47:00 PM |
|----------------------|-------|-------|--|------|---|----------------------|

Total Alkalinity by SM 2320B

Batch ID: R52246 Analyst: WF

| | | | | | | |
|---|------|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 23.4 | 2.50 | | mg/L | 1 | 6/24/2019 1:25:36 PM |
|---|------|------|--|------|---|----------------------|

Ferrous Iron by SM3500-Fe B

Batch ID: R52152 Analyst: GM

| | | | | | | |
|--------------|--------|--------|--|------|---|----------------------|
| Ferrous Iron | 0.0818 | 0.0500 | | mg/L | 1 | 6/14/2019 4:30:00 PM |
|--------------|--------|--------|--|------|---|----------------------|



Client: Friedman & Bruya

Collection Date: 6/14/2019 11:05:00 AM

Project: 906291

Lab ID: 1906179-003

Matrix: Water

Client Sample ID: MW04-20190614

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R52203 Analyst: SG

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00863 | | mg/L | 1 | 6/19/2019 4:54:00 PM |
| Ethene | ND | 0.0151 | | mg/L | 1 | 6/19/2019 4:54:00 PM |
| Ethane | ND | 0.0162 | | mg/L | 1 | 6/19/2019 4:54:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 24928 Analyst: SS

| | | | | | | |
|----------------|------|-------|----|------|----|----------------------|
| Nitrate (as N) | 14.8 | 1.00 | DH | mg/L | 10 | 6/17/2019 2:51:00 PM |
| Nitrate (as N) | 16.4 | 0.100 | E | mg/L | 1 | 6/14/2019 8:32:00 PM |
| Sulfate | 46.7 | 3.00 | D | mg/L | 10 | 6/17/2019 2:51:00 PM |

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument.

Total Alkalinity by SM 2320B

Batch ID: R52246 Analyst: WF

| | | | | | | |
|---|------|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 66.3 | 2.50 | | mg/L | 1 | 6/24/2019 1:25:36 PM |
|---|------|------|--|------|---|----------------------|

Ferrous Iron by SM3500-Fe B

Batch ID: R52152 Analyst: GM

| | | | | | | |
|--------------|-------|--------|--|------|---|----------------------|
| Ferrous Iron | 0.129 | 0.0500 | | mg/L | 1 | 6/14/2019 4:30:00 PM |
|--------------|-------|--------|--|------|---|----------------------|

Work Order: 1906179
CLIENT: Friedman & Bruya
Project: 906291

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

| | | | | | | | | | | | |
|------------------------------|-------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID MB-R52246 | SampType: MBLK | Units: mg/L | Prep Date: 6/24/2019 | RunNo: 52246 | | | | | | | |
| Client ID: MBLKW | Batch ID: R52246 | Analysis Date: 6/24/2019 | SeqNo: 1031682 | | | | | | | | |
| 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-R52246 | SampType: LCS | Units: mg/L | Prep Date: 6/24/2019 | RunNo: 52246 | | | | | | | |
| Client ID: LCSW | Batch ID: R52246 | Analysis Date: 6/24/2019 | SeqNo: 1031683 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 103 | 2.50 | 100.0 | 0 | 103 | 80 | 120 | | | | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID 1906179-001BDUP | SampType: DUP | Units: mg/L | Prep Date: 6/24/2019 | RunNo: 52246 | | | | | | | |
| Client ID: MW26-20190614 | Batch ID: R52246 | Analysis Date: 6/24/2019 | SeqNo: 1031685 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 84.5 | 2.50 | | | | | | 78.00 | 8.00 | 20 | |

Work Order: 1906179
CLIENT: Friedman & Bruya
Project: 906291

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

| Sample ID MB-24928 | SampType: MBLK | Units: mg/L | | | Prep Date: 6/14/2019 | RunNo: 52127 | | | | | |
|---------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: 24928 | | | | Analysis Date: 6/14/2019 | SeqNo: 1029284 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|----|-------|--|--|--|--|--|--|--|--|--|
| Nitrate (as N) | ND | 0.100 | | | | | | | | | |
| Sulfate | ND | 0.300 | | | | | | | | | |

| Sample ID LCS-24928 | SampType: LCS | Units: mg/L | | | Prep Date: 6/14/2019 | RunNo: 52127 | | | | | |
|----------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 24928 | | | | Analysis Date: 6/14/2019 | SeqNo: 1029285 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|--|--|--|--|
| Nitrate (as N) | 0.717 | 0.100 | 0.7500 | 0 | 95.6 | 90 | 110 | | | | |
| Sulfate | 3.54 | 0.300 | 3.750 | 0 | 94.5 | 90 | 110 | | | | |

| Sample ID 1906179-001BDUP | SampType: DUP | Units: mg/L | | | Prep Date: 6/14/2019 | RunNo: 52127 | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: MW26-20190614 | Batch ID: 24928 | | | | Analysis Date: 6/14/2019 | SeqNo: 1029287 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|------|-------|--|--|--|--|--|-------|--------|----|---|
| Nitrate (as N) | 7.85 | 0.100 | | | | | | 7.855 | 0.0637 | 20 | E |
| Sulfate | 48.1 | 0.300 | | | | | | 48.12 | 0.0395 | 20 | E |

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument.

| Sample ID 1906179-001BMS | SampType: MS | Units: mg/L | | | Prep Date: 6/14/2019 | RunNo: 52127 | | | | | |
|---------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: MW26-20190614 | Batch ID: 24928 | | | | Analysis Date: 6/14/2019 | SeqNo: 1029288 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|------|-------|--------|-------|-----|----|-----|--|--|--|---|
| Nitrate (as N) | 8.69 | 0.100 | 0.7500 | 7.855 | 112 | 80 | 120 | | | | E |
| Sulfate | 52.2 | 0.300 | 3.750 | 48.12 | 108 | 80 | 120 | | | | E |

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument.

Work Order: 1906179
CLIENT: Friedman & Bruya
Project: 906291

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

| | | | | | | | | | |
|------------|-----------------|-----------|-------|----------------|-----------|------------|-----------|--------|-------|
| Sample ID | 1906179-001BMSD | SampType: | MSD | Units: | mg/L | Prep Date: | 6/14/2019 | RunNo: | 52127 |
| Client ID: | MW26-20190614 | Batch ID: | 24928 | Analysis Date: | 6/14/2019 | SeqNo: | 1029289 | | |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|----------------|--------|-------|-----------|-------------|------|----------|-----------|-------------|--------|----------|------|
| Nitrate (as N) | 8.70 | 0.100 | 0.7500 | 7.855 | 112 | 80 | 120 | 8.693 | 0.0575 | 20 | E |
| Sulfate | 52.3 | 0.300 | 3.750 | 48.12 | 111 | 80 | 120 | 52.18 | 0.159 | 20 | E |

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument.

Work Order: 1906179
CLIENT: Friedman & Bruya
Project: 906291

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|----------------------------------|-------------------------|-------|--------------------|---------------------------------|------|-----------------------|-----------|-------------|-------|----------|------|
| Sample ID 1906197-001DDUP | SampType: DUP | | Units: mg/L | Prep Date: 6/18/2019 | | RunNo: 52199 | | | | | |
| Client ID: BATCH | Batch ID: R52199 | | | Analysis Date: 6/18/2019 | | SeqNo: 1030549 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 26.0 | 0.500 | | | | | | 25.77 | 0.927 | 20 | |

| | | | | | | | | | | | |
|---------------------------------|-------------------------|-------|--------------------|---------------------------------|------|-----------------------|-----------|-------------|------|----------|------|
| Sample ID 1906197-001DMS | SampType: MS | | Units: mg/L | Prep Date: 6/18/2019 | | RunNo: 52199 | | | | | |
| Client ID: BATCH | Batch ID: R52199 | | | Analysis Date: 6/18/2019 | | SeqNo: 1030550 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 31.0 | 0.500 | 5.000 | 25.77 | 104 | 70 | 130 | | | | |

Work Order: 1906179
CLIENT: Friedman & Bruya
Project: 906291

QC SUMMARY REPORT
Dissolved Gases by RSK-175

| Sample ID LCS-R52203 | SampType: LCS | Units: mg/L | | | Prep Date: 6/19/2019 | RunNo: 52203 | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: R52203 | | | | Analysis Date: 6/19/2019 | SeqNo: 1030678 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|------|----|-----|--|--|--|--|
| Methane | 1,020 | 0.00863 | 1,000 | 0 | 102 | 70 | 130 | | | | |
| Ethene | 976 | 0.0151 | 1,000 | 0 | 97.6 | 70 | 130 | | | | |
| Ethane | 973 | 0.0162 | 1,000 | 0 | 97.3 | 70 | 130 | | | | |

| Sample ID MB-R52203 | SampType: MBLK | Units: mg/L | | | Prep Date: 6/19/2019 | RunNo: 52203 | | | | | |
|----------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: R52203 | | | | Analysis Date: 6/19/2019 | SeqNo: 1030679 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00863 | | | | | | | | | |
| Ethene | ND | 0.0151 | | | | | | | | | |
| Ethane | ND | 0.0162 | | | | | | | | | |

| Sample ID 1906152-001AREP | SampType: REP | Units: mg/L | | | Prep Date: 6/19/2019 | RunNo: 52203 | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: R52203 | | | | Analysis Date: 6/19/2019 | SeqNo: 1030653 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------|------|-------|--|--|--|--|--|-------|------|----|----|
| Methane | 4.81 | 0.173 | | | | | | 4.601 | 4.43 | 30 | DE |
| Ethene | ND | 0.303 | | | | | | 0 | | 30 | D |
| Ethane | ND | 0.324 | | | | | | 0 | | 30 | D |

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument.

Client Name: **FB**
 Logged by: **Clare Griggs**

 Work Order Number: **1906179**
 Date Received: **6/14/2019 4:41:00 PM**
Chain of Custody

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

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. 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"/> | | |

19. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Cooler | 4.6 |
| Sample | 9.0 |

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY 1906179

Page # 1 of 1

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 3012 16th Ave W
 City, State, ZIP Seattle, WA 98119
 Phone # (206) 285-8282 Fax # (206) 283-5044

| | |
|--|----------------------|
| SUBCONTRACTER <u>Farron</u> | |
| PROJECT NAME/NO. <u>906291</u> | PO # <u>B-282</u> |
| REMARKS <p style="text-align: center;">Please Email Results</p> | |

| |
|---|
| TURNAROUND TIME |
| <input type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> RUSH Rush charges authorized by: _____ |
| SAMPLE DISPOSAL |
| <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> Will call with instructions |

Page 16 of 16

| Sample ID | Lab ID | Date Sampled | Time Sampled | Matrix | # of jars | ANALYSES REQUESTED | | | | | | | Notes | |
|--------------------------|--------|--------------------|-----------------|------------------|-----------|--------------------|-----|-----|--------------|-------------------------------|------------------------------|-----|-------|--|
| | | | | | | Dioxins/Furans | EPH | VPH | Ferrous Iron | Methane, Ethane, Ethane & SIC | Arsenic, Sulfate, Alkalinity | TOC | | |
| MW28-20190613 | | 6/13/14 | 1535 | water | | | | | X | X | X | | | |
| MW26-20190614 | | 6/14/15 | 0950 | ↓ | | | | | X | X | X | X | | |
| MW07-20190614 | | | 1050 | ↓ | | | | | X | X | X | X | | |
| MW04-20190614 | | | 1105 | ↓ | | | | | 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: | Michael Erdahl | Friedman & Bruya | 6/14/15 | 1501 |
| Received by: | FA Phoebe Autio | FAI | 6-14-15 | 1641 |
| Relinquished by: | | | | |
| Received by: | | | | |

Analytical Results

Client: SoundEarth Strategies

SiREM File Reference: S-5382

Client Project Number: 0731-004

Date Samples Received: June 18, 2019

Date Samples Analyzed: June 25, 2019

| Client Sample ID | SiREM Reference ID | Client Sample Date | Sample dilution factor | Lactate | Acetate | Propionate | Formate | Butyrate | Pyruvate |
|------------------|--------------------|--------------------|------------------------|---------|---------|------------|---------|----------|----------|
| | | | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| MW25-20190615 | 19-1594 | 15-Jun-19 | 50 | <0.39 | 45 | 1.3 | <0.22 | 1.3 | <0.69 |
| MW18-20190615 | 19-1595 | 15-Jun-19 | 50 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| IW04-20190615 | 19-1596 | 15-Jun-19 | 50 | <0.39 | 31 | 6.1 | <0.22 | 3.2 | 0.42 |
| MW24-20190615 | 19-1597 | 15-Jun-19 | 50 | <0.39 | 39 | 5.6 | <0.22 | 0.46 | <0.69 |
| IW50-20190615 | 19-1598 | 15-Jun-19 | 50 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| MW21-20190615 | 19-1599 | 15-Jun-19 | 50 | <0.39 | 140 | 66 | <0.22 | 12 | 4.2 |
| MW22-20190615 | 19-1600 | 15-Jun-19 | 50 | <0.39 | 270 | 150 | <0.22 | 39 | 13 |
| IW61-20190615 | 19-1601 | 15-Jun-19 | 50 | <0.39 | 88 | 72 | <0.22 | 4.4 | 0.58 |
| MW23-20190615 | 19-1602 | 15-Jun-19 | 50 | <0.39 | 19 | 86 | <0.22 | 0.42 | 1.8 |

| | | | | | | | |
|----|----|------|------|------|------|------|------|
| QL | 50 | 0.39 | 0.54 | 0.31 | 0.22 | 0.41 | 0.69 |
|----|----|------|------|------|------|------|------|

Comments:

Method: Ion Chromatography

QL = Quantitation limit

J = associated value is estimated; compound positively detected at concentration below the QL

< = compound analysed for but not detected, associated value is QL. Sample QL is corrected for dilution.

Analyst:



Steven Sande
Laboratory Technician

Results approved:



Michael Healey, B.Sc.
Laboratory Technician

Date:

26-Jun-19



Chain-of-Custody Form

siremlab.com

180A Market Place Bldg
Knoxville, TN 37917
(865) 330-0037

Lab #
S-5382

| | | | | | | | |
|--|--|---|--|-----------------------------|-------------|------------------------------|-----------------|
| Project Name Troy Laundry | | Project # 0731-004 | | Preservative | | Analysis | |
| Project Manager Logan Schumacher | | | | Volatile Fatty Acids | | VOA centrifuge vial # | |
| Email LSCHUMACHER@SOUNDEARTHINC.COM | | | | | | | |
| Company Sand Earth Strategies | | | | | | | |
| Address 2811 Ferris Ave E Suite 2000 Seattle, WA 98102 | | | | | | | |
| Phone # 206-306-1900 | | | | | | | |
| Sampler's Signature Sarah Welter | | Sampler's Printed Name Sarah Welter | | | | | |
| Client Sample ID | | Lab ID | | Sampling | | Other Information | |
| | | | | Date | Time | Matrix | # of Containers |
| MW25-20190615 | | | | 6/15/19 | 0818 | W | 2 |
| MW18-20190615 | | | | | 0935 | W | 2 |
| IW04-20190615 | | | | | 1017 | W | 2 |
| MW04-20190615 | | | | | 1120 | W | 2 |
| IW50-20190615 | | | | | 1205 | W | 2 |
| MW01-20190615 | | | | | 1232 | W | 2 |
| MW22-20190615 | | | | | 1310 | W | 2 |
| IW01-20190615 | | | | | 1325 | W | 2 |
| MW23-20190615 | | | | | 1410 | W | 2 |

Preservative Key
 0. None
 1. HCL
 2. Other _____
 3. Other _____
 4. Other _____
 5. Other _____
 6. Other _____

| | | | | | |
|--|--|--------------------------------------|--|-------------------------|--|
| Cooler Condition: Good | | P.O. # 0731-004-05 | | For Lab Use Only | |
| Cooler Temperature: 9.0°C | | Bill To: AP@SOUNDEARTHINC.COM | | | |
| Custody Seals: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | LSCHUMACHER@SOUNDEARTHINC.COM | | | |

| | | | | | | | | | | | |
|--------------------------------------|--|--------------------------------|--|--------------------------------------|--|-------------------------------------|--|------------------|--|---------------|--|
| Relinquished By: Sarah Welter | | Received By: J. Smith | | Relinquished By: Susan Thomas | | Received By: Rachel Hallman | | Relinquished By: | | Received By: | |
| Printed Name: Sarah Welter | | Printed Name: J. Smith | | Printed Name: Susan Thomas | | Printed Name: Rachel Hallman | | Printed Name: | | Printed Name: | |
| Firm: Sand Earth | | Firm: SIREM | | Firm: SIREM | | Firm: SIREM | | Firm: | | Firm: | |
| Date/Time: 6/17/19 0935 | | Date/Time: 6-18-19 0915 | | Date/Time: 6-19-19 1500 | | Date/Time: 21 June 19 12:10 | | Date/Time: | | Date/Time: | |

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

In the absence of an executed agreement, submission of samples to SIREM implies consent for performance of analyses specified on this Chain-of-Custody form and agreement with the terms and conditions of the SIREM Laboratory Services Agreement. The entity submitting samples shall be responsible for payment in full for said analyses.