



November 24, 2020
Project No. 0747.01.12

Michael R. Warfel, LG, LHG, RG
Washington State Department of Ecology
3190 160th Avenue SE
Bellevue, WA 98008

Re: Monitoring Well Installation and First Quarterly Compliance Groundwater Monitoring Event
North Cascade Ford Property, Sedro-Woolley, Washington
VCP Number: NW3031, CSID: 12075, FSID: 58313566

Dear Mr. Warfel:

On behalf of VSF Properties, LLC, Maul Foster & Alongi, Inc. (MFA) has prepared this letter report describing monitoring well installation, development, and sampling activities conducted at the North Cascade Ford property, located at 116 W Ferry Street in Sedro-Woolley, Washington (the Property) (see Figure 1). The North Cascade Ford Site (the Site) includes the Property and a portion of the adjacent property to the north, owned by the Burlington Northern Santa Fe Railway Company (BNSF) (see Figures 1 and 2).

Activities were conducted in accordance with the groundwater compliance monitoring plan (CMP), the addendum to the groundwater CMP (MFA, 2020a,c), and requirements for Performance Monitoring per the Washington State Model Toxics Control Act (MTCA) (Washington Administrative Code 173-340-410(b)).

BACKGROUND

Previous investigations identified environmental impacts in three remaining areas of the Site, referred to as areas of concern (AOCs) 1 through 3 (see Figure 2) (MFA, 2015, 2017a,b, 2020b,c).

Chemicals of concern (COCs) in AOCs 1 through 3 include diesel-range organics (DRO), lube oil-range organics (ORO), gasoline-range organics (GRO), benzene, toluene, ethylbenzene, total xylenes (BTEx), and/or total naphthalenes.

Historical groundwater analytical results associated with monitoring wells in AOCs 1 and 2 and reconnaissance groundwater samples in AOC 3 are presented in Table 1.

In March 2020, a cleanup action was completed in AOCs 1 through 3 at the Site (MFA, 2020b). Cleanup included:

- Excavation and off-Site disposal of approximately 3,534 tons of petroleum-contaminated soil.
- Placement of clean backfill amended with an oxygen-releasing in situ bioremediation product.
- Excavation dewatering and treatment of approximately 124,200 gallons of impacted groundwater.
- Decommissioning and removal of a formerly unknown, abandoned underground storage tank (UST).
- Removal of hydraulic hoists and associated soil contamination.

Following implementation of the remedial action, the groundwater CMP and addendum to the groundwater CMP were developed in coordination with the Washington State Department of Ecology to implement performance groundwater monitoring the Site (MFA, 2020a,c). The purpose of performance monitoring per WAC 173-340(b) is to confirm that a cleanup action had attained cleanup levels.

FIELD AND ANALYTICAL METHODS

Monitoring well installation, development, and sampling activities were conducted in September and October 2020. Sample locations, sample depths, and chemical analyses are summarized in Table 2. Confirmatory soil sampling borings and compliance monitoring well locations are shown on Figure 2.

Confirmation Soil Sampling

Two soil samples were collected during the investigation: one from temporary boring GP79 and one from monitoring well MW10, as outlined in Table 2. A hand-held global positioning system device with sub-foot accuracy was used to navigate to boring and monitoring well locations on the Site. Soil borings and monitoring wells were advanced via direct-push Geoprobe™ drill rig.

Soil was screened with a photoionization detector (PID) to measure soil vapor headspace, and visual and olfactory observations were documented. Lithologic descriptions and PID screening results were recorded on boring logs (Attachment A), and sampling depths are summarized in Table 2. Soil was transferred directly into laboratory-supplied containers and submitted to Friedman & Bruya, Inc. (FBI) of Seattle, Washington, for analysis under standard chain-of-custody procedures.

Monitoring Well Installation and Development

On September 14, 2020, five monitoring wells (MW01R and MW09 through MW12) were installed via direct-push Geoprobe™ drill rig to a maximum of 20 feet below ground surface (bgs). Monitoring wells were constructed with 2-inch-diameter, polyvinyl chloride, prepacked, 0.010-inch slotted well screens and were completed with flush-mounted, traffic-grade monuments (see monitoring well completion details on boring logs, included as Attachment A).

On September 15, 2020, at least 24 hours after well installation, the monitoring wells were developed to remove sediment that may have accumulated during well installation and to improve the hydraulic connection with the water-bearing zone. Development consisted of surging and purging groundwater from the well casing until turbidity decreased and the purge water was clear (see well development forms in Attachment B).

Potentiometric Surface

On September 22, 2020, MFA measured static water levels in the compliance monitoring (see Table 3). A potentiometric surface map is provided as Figure 3. The estimated potentiometric surface contours are similar to those previously observed and indicate that shallow groundwater at the Site is hydraulically discontinuous. Excavation for the cleanup action allowed for detailed observation of subsurface conditions over a larger area of the Property. Pervasive discontinuous confining layers were observed, over relatively short distances. Groundwater contours continue to demonstrate essentially zero groundwater flux from the contaminant source areas.

Monitoring Well Sampling

MFA collected ten groundwater samples from nine compliance monitoring wells on the Property (MW01R, MW02R, MW04, MW06, MW07, and MW09 through MW12) on September 22, 2020, including a field duplicate sample from monitoring well MW11. Chemical analyses and analytical methods are detailed in Table 2.

Before the collection of groundwater samples, the water level was measured, and the well was purged at a U.S. Environmental Protection Agency-approved low-flow purge rate. A minimum of one well volume was purged and selected water quality field parameters (e.g., temperature, specific conductance, pH, turbidity) were allowed to stabilize prior to sample collection. During purging, the flow rates, water levels, and water quality parameters were recorded on field sampling data sheets (see Attachment C). Groundwater samples were submitted to FBI for analysis under standard chain-of-custody procedures.

Following consultation with Ecology, additional groundwater samples were collected from MW01R and MW10 on October 14, 2020. Samples were analyzed for GRO, DRO, ORO,

naphthalene, and extractable petroleum hydrocarbons/volatile petroleum hydrocarbons (EPH/VPH), see Table 2. Analytical data from the additional groundwater monitoring may be used to develop site-specific MTCA Method B cleanup levels (CULs) for the Site.

RESULTS

Laboratory analytical reports are provided as Attachment D, and analytical data is presented in Tables 4 through 6. MTCA Method A CUL exceedances of DRO and ORO are shown on Figure 4, and site trends for DRO and ORO concentrations are presented in Figures 5 and 6. Analytical data and the laboratory's internal quality assurance and quality control data were reviewed to assess whether they met project-specific data quality objectives. Data validation memoranda summarizing data evaluation procedures, data usability, and deviations from specific field and/or laboratory methods are included as Attachment E. The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

AOC 1: Former Auto Repair Shop

On September 22, 2020, three groundwater samples were collected from monitoring wells MW01R, MW07, and MW09 (see Tables 2 and 5). GRO were detected in MW01R at 160 micrograms per liter (ug/L), well below the MTCA CUL of 1,000 ug/L.

DRO exceeded the MTCA Method A CUL (500 ug/L) in MW01R and MW09 at 1,900 ug/L and 640 ug/L, respectively. ORO were detected in MW01R and MW09 at concentrations above the MTCA Method A CUL at 610 ug/L and 620 ug/L, respectively. Xylenes were detected in MW01R at 3.7 ug/L, well below the MTCA Method A CUL of 1,000 ug/L. No other BTEX constituents were detected in the groundwater samples.

After discussing the September 22 monitoring results with Ecology, an additional groundwater sample from MW01R was collected on October 14, 2020. In addition to analyzing for GRO, DRO, ORO, and naphthalene, the sample was analyzed for EPH, and VPH. The EPH and VPH data allow for the calculation of Site-specific CULs

GRO, ORO, and naphthalene were non-detect. DRO was detected below the MTCA Method A CUL at a concentration of 200 ug/L. EPH and VPH results are presented in Table 6.

AOC 2: Former USTs

Two soil samples were collected during the investigation at temporary boring GP79 and the boring for monitoring well MW10. The samples were collected to assess previous exceedances of MTCA Method A CULs in samples taken from the base of excavations completed during the cleanup action. The follow up soil sample at GP79 was analyzed for GRO and the soil sample from the MW10 boring was analyzed for DRO and ORO. All soil samples were non-

detect for their respective analytes and confirms effective cleanup for soil in this AOC. Analytical results from soil sampling are included in Table 4.

On September 22, 2020, five groundwater samples were collected from monitoring wells MW02R, MW04, MW06, MW10, and MW12 and analyzed for GRO, DRO, ORO, and BTEX. GRO were detected in one monitoring well, MW10, at 370 ug/L, below the MTCA Method A CUL of 1,000 ug/L. DRO were detected in groundwater samples from all wells except MW06 and MW12; and detections ranged from 260 to 1,900 ug/L. DRO exceeded the MTCA Method A CUL in MW02R and MW10 at 780 ug/L and 1,900 ug/L, respectively. ORO were detected in one monitoring well, MW02R, at 450 ug/L, below the MTCA Method A CUL. No BTEX constituents were detected in the groundwater samples.

One additional groundwater sample from MW10 was collected on October 14, 2020 and analyzed for GRO, DRO, ORO, EPH, VPH, and naphthalene. GRO, DRO, ORO, and naphthalene were detected, but only DRO exceeded its respective MTCA Method A CUL at a concentration of 2,000 ug/L. EPH and VPH results are presented in Table 6.

AOC 3: Former Coal Storage Sheds/Possible Buried Object

Two groundwater samples, one primary and one field duplicate sample, were collected from MW11 and analyzed for GRO, DRO, ORO, BTEX, and total naphthalenes. Ethylbenzene, xylenes, GRO, DRO, and total naphthalenes were their respective MTCA Method A CULs. Benzene, toluene, and ORO were not detected.

SUMMARY AND DISCUSSION

Results from the soil sampling and groundwater monitoring indicate the following:

- Localized groundwater flow variations are likely influenced by variabilities of the subsurface soil and hydrogeologic conditions at the Property. Variability in the subsurface and the presence of discontinuous confining layers create hydraulic discontinuities across the property.
- **AOC 1**
 - DRO and ORO concentrations remain above their respective MTCA Method A CULs in groundwater at MW09.
 - DRO and ORO concentrations were below MTCA Method A CULs in groundwater at MW01R in the sample from October 14, 2020.

- **AOC 2**

- Soil at GP79 and MW10 were non-detect for COCs. Therefore, no detections of DRO, ORO, or GRO remain above MTCA Method A CULs in soil on the Property.
- DRO concentrations remain above the MTCA Method A CUL in groundwater at monitoring wells MW02R and MW10.
- DRO concentrations remained relatively consistent between the September 22 and October 14, 2020 monitoring events at MW10.

- **AOC 3**

- No detections of COCs exceeded their respective MTCA Method A CULs.

During the March 2020 remedial action, access restrictions on BNSF property prevented the removal of all petroleum impacted soil on BNSF's property. To treat residual impacts, bioremediation-amended backfill was placed in the excavations at varying depths in each AOC based on local lithologic and hydrogeologic conditions; bioremediation-amended backfill was placed from approximately 5 to 11 feet bgs in AOC 1, 5 to 8 feet bgs in AOC 2, and 5 to 10 feet bgs in AOC 3 (see Figures 4-1 through 4-3 of the remedial completion report [MFA, 2020b]).

The average depth to groundwater during the September and October 2020 monitoring events was approximately 10.4 feet bgs and 8.7 feet bgs, respectively. The average depth to groundwater decreased across the Site; however, groundwater in MW01R decreased by 2.12 feet, while depth to groundwater in MW10 decreased by only 0.5 feet. Concentrations of DRO and ORO decreased to below MTCA Method A CULs at MW01R in AOC 1 between these events but remained relatively consistent at MW10 in AOC 2.

This suggests that due to the low water table, groundwater may not have interacted with the amended backfill in AOC 2, but may have begun interacting with the amended backfill in AOC 1. It is anticipated that in the upcoming rainy season, the water table will continue to rise, and more groundwater will interact with amended backfill, decreasing residual DRO and ORO concentrations in groundwater at the Site.

The next quarterly groundwater monitoring event is scheduled for December 2020.

If you have any questions, please feel free to contact either of us.

Michael R. Warfel, LG, LHG, RG
November 24, 2020
Page 7

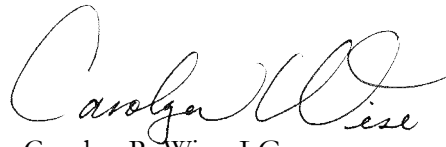
Project No. 0747.01.12

Sincerely,

Maul Foster & Alongi, Inc.

James J. Maul, LHG
Principal Hydrogeologist

11-24-2020


Carolyn R. Wise, LG
Project Geologist

Attachments: Limitations
References
Tables
Figures
A – Boring Logs
B – Well Development Forms
C – Water Field Sampling Data Sheets
D – Laboratory Analytical Reports
E – Data Validation Memoranda

cc: Larry Setchell, Setchell NW Legal Services, P.S.
Holly Stafford, Chmelik, Sitkin & David, P.S.

LIMITATIONS

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

REFERENCES

MFA. 2015. Preliminary remedial investigation and feasibility study, North Cascade Ford property, Sedro-Woolley, Washington. Prepared for VSF Properties, LLC. Prepared by Maul Foster & Alongi, Inc., Bellingham, Washington. December 9.

MFA. 2017a. Letter (re: 2016 data gap investigation results, North Cascade Ford property, Sedro-Woolley, Washington) to L. Setchell, Helsell Fetterman LLP, from H. Good and J. Clary, Maul Foster & Alongi, Inc., Bellingham, Washington. January 24.

MFA. 2017b. Supplemental data gap investigation report, North Cascade Ford property, Sedro-Woolley, Washington. Prepared for VSF Properties, LLC. Prepared by Maul Foster & Alongi, Inc., Bellingham, Washington. August 18.

MFA. 2020a. Groundwater compliance monitoring plan, North Cascade Ford property, Sedro-Woolley, Washington. Prepared for VSF Properties, LLC. Prepared by Maul Foster & Alongi, Inc., Bellingham, Washington. July 8.

MFA. 2020b. Remedial action completion report, North Cascade Ford property, Sedro-Woolley, Washington. Prepared for VSF Properties, LLC. Prepared by Maul Foster & Alongi, Inc., Bellingham, Washington. July 13.

MFA. 2020c. Memorandum (re: Addendum to Groundwater Compliance Monitoring Plan, North Cascade Ford Property, 116 W. Ferry Street, Sedro-Woolley, Washington, Facility Site ID: 58313566; Cleanup Site ID: 12075) to M. Warfel, Washington State Department of Ecology, from J. Maul, Maul Foster & Alongi, Inc., Bellingham, Washington. August 10.

TABLES



Table 1
Historical Groundwater Analytical Results
VSF Properties, LLC, North Cascade Ford Property
Sedro-Woolley, Washington

| AOC | Location | Sample Name | Collection Date: | Collection Depth (ft bgs) ^(a) | Benzene | Ethylbenzene | Toluene | Xylenes ^(b) | Gasoline-Range Organics | Diesel-Range Organics | Lube-Oil-Range Organics | Total Naphthalenes |
|------------------------------|----------|------------------|------------------|--|---------|--------------|---------|------------------------|-------------------------|-----------------------|-------------------------|--------------------|
| MTCA Method A Cleanup Level: | | | | | 5 | 700 | 1,000 | 1,000 | 800 | 500 | 500 | 160 |
| 1 | MW01 | MW1-W-8.5 | 05/15/2012 | 5.61-13.44 | 0.3 | 0.2 U | 0.2 U | 0.4 U | 400 | 1,300 | 240 | 10.53 |
| | | FIELD DUPLICATE | | | 0.3 | 0.2 U | 0.2 U | 0.4 U | 380 | 1,200 | 220 | 11.36 |
| | | MW01-GW-20121019 | 10/09/2012 | 9.87-13.44 | -- | -- | -- | -- | -- | 1,800 | 490 | 11.18 |
| | | MW01 | 04/10/2014 | NM | 0.2 U | 0.2 U | 0.2 U | 0.4 U | 250 U | 1,700 | 870 | -- |
| | | MWDUP | | | 0.2 U | 0.2 U | 0.2 U | 0.4 U | 250 U | 1,600 | 930 | -- |
| | | MW01-GW-140618 | 06/18/2014 | 6.09-13.45 | -- | -- | -- | -- | -- | 1,400 | 310 | -- |
| | | FD-GW-140618 | | | -- | -- | -- | -- | -- | 1,700 | 350 | -- |
| | | MW01-GW-091014 | 09/10/2014 | 7.74-13.44 | -- | -- | -- | -- | -- | 1,300 | 300 | -- |
| | | FD-091014 | | | -- | -- | -- | -- | -- | 1,400 | 390 | -- |
| | | MW01-GW-121014 | 12/10/2014 | 6.08-13.46 | -- | -- | -- | -- | -- | 2,400 | 1,400 | -- |
| | | FD-121014 | | | -- | -- | -- | -- | -- | 1,900 | 1,200 | -- |
| | | MW01-GW-112816 | 11/28/2016 | 6.12-13.43 | -- | -- | -- | -- | -- | 1,300 | 610 U | -- |
| | | MWDUP-GW-112816 | | | -- | -- | -- | -- | -- | 1,300 | 590 U | -- |
| | | MW01-GW-042617 | 04/26/2017 | 5.35-13.40 | -- | -- | -- | -- | 100 U | 620 | 510 J | -- |
| | | MWDUP-GW-042617 | | | -- | -- | -- | -- | 100 U | 560 | 410 U | -- |
| | | MW01-GW-101718 | 10/17/2018 | 9.70-13.40 | -- | -- | -- | -- | 500 U | 900 | 1,500 | -- |
| | | MW01-GW-032819 | 03/28/2019 | 6.82-13.41 | -- | -- | -- | -- | 370 J | 2,400 | 2,200 | -- |
| | MW05 | MW05-GW-042617 | 04/26/2017 | 5.76-10.60 | -- | -- | -- | -- | 490 | 1,300 | 1,100 | -- |
| | | MW05-GW-032819 | 03/28/2019 | 6.93-10.63 | -- | -- | -- | -- | 600 J | 1,500 | 460 | -- |
| | MW07 | MW07-GW-042617 | 04/26/2017 | 7.85-19.74 | -- | -- | -- | -- | 100 U | 260 U | 410 U | -- |
| | | MW07-GW-101718 | 10/17/2018 | 9.25-19.74 | -- | -- | -- | -- | 100 U | 250 U | 400 U | -- |
| | | MW07-GW-032819 | 03/28/2019 | 7.95-19.74 | -- | -- | -- | -- | 100 U | 250 U | 410 U | -- |
| | MW08 | MW08-GW-042617 | 04/26/2017 | 7.38-15.80 | -- | -- | -- | -- | 400 U | 1,000 | 690 | -- |
| | | MW08-GW-101718 | 10/17/2018 | 10.05-15.80 | -- | -- | -- | -- | 100 U | 700 | 580 | -- |
| | | MWDUP-GW-101718 | | | -- | -- | -- | -- | 500 U | 780 | 970 | -- |
| | | MW08-GW-032819 | 03/28/2019 | 6.85-15.82 | -- | -- | -- | -- | 100 U | 950 | 460 | -- |
| | | MWDUP-GW-032819 | | | -- | -- | -- | -- | 100 U | 1,000 | 510 | -- |

Table 1
Historical Groundwater Analytical Results
VSF Properties, LLC, North Cascade Ford Property
Sedro-Woolley, Washington

| AOC | Location | Sample Name | Collection Date: | Collection Depth (ft bgs) ^(a) | Benzene | Ethylbenzene | Toluene | Xylenes ^(b) | Gasoline-Range Organics | Diesel-Range Organics | Lube-Oil-Range Organics | Total Naphthalenes |
|------------------------------|--|------------------|------------------|--|---------|--------------|---------|------------------------|-------------------------|-----------------------|-------------------------|--------------------|
| MTCA Method A Cleanup Level: | | | | | 5 | 700 | 1,000 | 1,000 | 800 | 500 | 500 | 160 |
| 2 | MW02 (decommissioned in September 2016) | MW2-W-9 | 05/16/2012 | 6.65-13.85 | 0.2 U | 0.2 U | 0.2 U | 0.4 U | 250 U | 1,900 | 240 | ND |
| | | MW02-GW-20121019 | 10/09/2012 | 9.29-13.84 | -- | -- | -- | -- | -- | 690 | 200 U | -- |
| | | MW02 | 04/10/2014 | 6.12-13.81 | -- | -- | -- | -- | -- | 11,000 | 1,300 | -- |
| | | MW02-GW-140618 | 06/18/2014 | 6.98-13.80 | -- | -- | -- | -- | -- | 3,800 | 410 | -- |
| | | MW02-GW-091014 | 09/10/2014 | 8.37-13.84 | -- | -- | -- | -- | -- | 770 | 200 U | -- |
| | | MW02-GW-121014 | 12/10/2014 | 7.11-13.85 | -- | -- | -- | -- | -- | 1,300 | 410 | -- |
| | MW02R (replacement well for MW02) | MW02R-GW-042617 | 04/26/2017 | 6.60-14.80 | -- | -- | -- | -- | -- | 750 | 410 U | -- |
| | | MW02R-GW-101718 | 10/17/2018 | 9.90-14.80 | -- | -- | -- | -- | -- | 480 | 450 | -- |
| | | MW02R-GW-032819 | 03/28/2019 | 7.60-14.79 | -- | -- | -- | -- | -- | 680 | 470 | -- |
| 2 | MW04 | MW04-GW-042617 | 04/26/2017 | 6.39-13.60 | -- | -- | -- | -- | -- | 260 | 450 | -- |
| | | MW04-GW-101718 | 10/17/2018 | 10.23-13.60 | -- | -- | -- | -- | -- | 250 U | 420 U | -- |
| | | MW04-GW-032819 | 03/28/2019 | 7.40-13.58 | -- | -- | -- | -- | -- | 260 U | 410 U | -- |
| | MW06 | MW06-GW-042617 | 04/26/2017 | 7.66-19.74 | -- | -- | -- | -- | -- | 260 U | 410 U | -- |
| | | MW06-GW-101718 | 10/17/2018 | 10.6-19.74 | -- | -- | -- | -- | 100 U | 250 U | 400 U | -- |
| | | MW06-GW-032819 | 03/28/2019 | 5.73-13.88 | -- | -- | -- | -- | 100 U | 260 U | 410 U | -- |
| 3 | GP51 | GP51-W-11.0 | 11/16/2016 | 8.85-12.0 | 15 J | 480 J | 6.1 J | 1000 J | 7400 J | -- | -- | -- |
| | GP76 | GP76-W-10.0 | 04/25/2017 | 6.0-15.0 | 5.8 | 230 | 10 U | 8.4 | 6900 | 2800 J | 420 U | 428 |

NOTES:

Analytical results are shown in ug/L.

CUL exceedances highlighted.

Detected concentrations are compared to MTCA Method A CULs for groundwater.

-- = not analyzed.

AOC = area of concern.

CUL = cleanup level.

ft bgs = feet below ground surface.

J = Result is an estimated value.

MTCA = Model Toxics Control Act.

ND = not detected.

NM = Because of unanticipated presence of free product, water level not measured.

NV = no value.

U = Analyte not detected at or above method reporting limit.

ug/L = micrograms per liter (parts per billion).

^(a)Sample collection depths are from top of water table or top of screened interval, whichever is deeper, to bottom of screened interval.

^(b)Total xylenes are sum of m,p-xylene and o-xylene. When both results are non-detect, the higher reporting limit is used.

Table 2
Sampling and Analysis Summary
VSF Properties, LLC, North Cascade Ford Property
Sedro-Woolley, Washington

| AOC | Well ID | Sample Matrix | Sample Depth | Sample Date | Analytical Schedule | | | | | |
|-----|---------|---------------|--------------|-------------|---------------------|-----|------------------|---------|------|---------|
| | | | | | DRO | ORO | GRO | EPH/VPH | BTEX | Naphth. |
| 1 | MW01R | GW | 5 - 15 | 9/22/2020 | X | X | X | -- | X | -- |
| | | GW | 5 - 15 | 10/14/2020 | X | -- | X | X | -- | X |
| | MW07 | GW | 5 - 20 | 9/22/2020 | X | X | X | -- | X | -- |
| | MW09 | GW | 5 - 20 | 9/22/2020 | X | X | X | -- | X | -- |
| 2 | MW02R | GW | 5 - 15 | 9/22/2020 | X | X | X | -- | X | -- |
| | MW04 | GW | 4 - 14 | 9/22/2020 | X | X | X | -- | X | -- |
| | MW06 | GW | 5 - 20 | 9/22/2020 | X | X | X | -- | X | -- |
| | MW10 | Soil | 11 | 9/14/2020 | X ^(a) | -- | -- | -- | -- | -- |
| | | GW | 5 - 20 | 9/22/2020 | X | X | X | -- | X | -- |
| | | GW | 5 - 20 | 10/14/2020 | X | -- | X | X | -- | X |
| | MW12 | GW | 5 - 15 | 9/22/2020 | X | X | X | -- | X | -- |
| | GP79 | Soil | 8.5 | 9/14/2020 | -- | -- | X ^(b) | -- | -- | -- |
| 3 | MW11 | GW | 5 - 20 | 9/22/2020 | X | X | X | -- | X | X |

NOTES:

-- = not analyzed.

AOC = area of concern.

BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8021.

DRO = diesel-range organics; analysis by NWTPH-Dx method.

EPA = U.S. Environmental Protection Agency.

EPH/VPH = extractable petroleum hydrocarbons/volatile petroleum hydrocarbons; analysis by NWTPH-EPH/VPH.

GRO = gasoline-range organics; analysis by NWTPH-Gx method.

ID = identification.

NWTPH = Northwest Total Petroleum Hydrocarbons.

ORO = oil-range organics; analysis by NWTPH-Dx method.

SIM = selected ion monitoring.

Naphth. = naphthalenes; analysis by EPA Method 8270 SIM.

X = yes.

^(a)Soil sample collected to assess elevated DRO concentration at A2-BASE8.

^(b)Soil sample collected to assess elevated GRO concentration at A2-ESW1.

Table 3
Water Levels
VSF Properties, LLC, North Cascade Ford Property
Sedro-Woolley, Washington

| Location | MP Elevation (feet, NAVD 88) | Measurement Date | NAPL Thickness (feet) | Depth to Water (feet) | NAPL-Corrected Depth to Water (feet) ^(a) | Groundwater Elevation (feet, NAVD 88) |
|---|---------------------------------|---------------------|-----------------------------|--------------------------|---|---|
| MW01 (decommissioned in February 2020) | 56.09 | 05/15/2012 | -- | 5.61 | NA | 50.48 |
| | | 10/09/2012 | -- | 9.87 | NA | 46.22 |
| | | 12/03/2012 | -- | 6.96 | NA | 49.13 |
| | | 04/10/2014 | NM ^(b) | NM ^(b) | NA | NM ^(b) |
| | | 06/17/2014 | NM ^(c) | 6.01 | NA | 50.16 |
| | | 06/18/2014 | -- | 6.09 | NA | 50.00 |
| | | 09/10/2014 | NM ^(c) | 7.74 | NA | 48.43 |
| | | 12/10/2014 | 0.01 ^(d) | 6.09 | 6.08 | 50.09 |
| | | 04/26/2017 | -- | 5.35 | NA | 50.74 |
| | | 05/31/2017 | -- | 5.96 | NA | 50.13 |
| | | 10/17/2018 | 0.02 | 9.70 | 9.69 | 46.40 |
| | | 12/06/2018 | NM ^(e) | NA ^(e) | NA ^(e) | NA ^(e) |
| | | 03/28/2019 | NM ^(e) | NA ^(e) | NA ^(e) | NA ^(e) |
| MW01R | 56.32 | 09/22/2020 | -- | 9.94 | NA | 46.38 |
| | | 10/14/2020 | -- | 7.82 | NA | 48.50 |
| MW02 (decommissioned in September 2016) | 56.73 | 05/15/2012 | -- | 6.65 | NA | 50.08 |
| | | 10/09/2012 | -- | 9.29 | NA | 47.44 |
| | | 12/03/2012 | -- | 8.45 | NA | 48.28 |
| | | 04/10/2014 | -- | 6.12 | NA | 50.61 |
| | | 06/17/2014 | -- | 6.96 | NA | 49.77 |
| | | 06/18/2014 | -- | 6.98 | NA | 49.75 |
| | | 09/10/2014 | -- | 8.37 | NA | 48.36 |
| | | 12/10/2014 | -- | 7.11 | NA | 49.62 |

Table 3
Water Levels
VSF Properties, LLC, North Cascade Ford Property
Sedro-Woolley, Washington



| Location | MP Elevation (feet, NAVD 88) | Measurement Date | NAPL Thickness (feet) | Depth to Water (feet) | NAPL-Corrected Depth to Water (feet) ^(a) | Groundwater Elevation (feet, NAVD 88) |
|----------|---------------------------------|---------------------|-----------------------------|--------------------------|---|---|
| MW02R | 56.59 | 04/26/2017 | -- | 6.60 | NA | 49.99 |
| | | 05/31/2017 | -- | 7.07 | NA | 49.52 |
| | | 10/17/2018 | -- | 9.90 | NA | 46.69 |
| | | 12/06/2018 | -- | 8.80 | NA | 47.79 |
| | | 03/28/2019 | -- | 7.60 | NA | 48.99 |
| | | 09/22/2020 | -- | 9.28 | NA | 47.31 |
| | | 10/14/2020 | -- | 9.41 | NA | 47.18 |
| MW03 | 55.08 | 05/15/2012 | -- | 5.40 | NA | 49.68 |
| | | 10/09/2012 | -- | 8.11 | NA | 46.97 |
| | | 12/03/2012 | -- | 5.28 | NA | 49.80 |
| | | 04/10/2014 | -- | 5.00 | NA | 50.08 |
| | | 06/17/2014 | -- | 5.66 | NA | 49.42 |
| | | 06/18/2014 | -- | 5.87 | NA | 49.21 |
| | | 09/10/2014 | -- | 6.94 | NA | 48.14 |
| | | 12/10/2014 | -- | 5.10 | NA | 49.98 |
| | | 05/31/2017 | -- | 5.75 | NA | 49.33 |
| | | 10/17/2018 | -- | 7.72 | NA | 47.36 |
| | | 12/06/2018 | -- | 5.92 | NA | 49.16 |
| | | 03/28/2019 | -- | 5.73 | NA | 49.35 |
| MW04 | 56.32 | 04/26/2017 | -- | 6.39 | NA | 49.93 |
| | | 05/31/2017 | -- | 6.88 | NA | 49.44 |
| | | 10/17/2018 | -- | 10.23 | NA | 46.09 |
| | | 12/06/2018 | -- | 8.62 | NA | 47.70 |
| | | 03/28/2019 | -- | 7.40 | NA | 48.92 |
| | | 09/22/2020 | -- | 9.06 | NA | 47.26 |

Table 3
Water Levels
VSF Properties, LLC, North Cascade Ford Property
Sedro-Woolley, Washington



| Location | MP Elevation (feet, NAVD 88) | Measurement Date | NAPL Thickness (feet) | Depth to Water (feet) | NAPL-Corrected Depth to Water (feet) ^(a) | Groundwater Elevation (feet, NAVD 88) |
|--|---------------------------------|---------------------|-----------------------------|--------------------------|---|---|
| MW05 (decommissioned in February 2020) | 56.25 | 04/26/2017 | -- | 5.76 | NA | 50.49 |
| | | 05/31/2017 | -- | 6.35 | NA | 49.90 |
| | | 10/17/2018 | -- | NA ^(f) | NA ^(f) | NA ^(f) |
| | | 12/06/2018 | -- | 8.05 | NA | 48.20 |
| | | 03/28/2019 | -- | 6.93 | NA | 49.32 |
| MW06 | 56.58 | 04/26/2017 | -- | 7.66 | NA | 48.92 |
| | | 05/31/2017 | -- | 8.06 | NA | 48.52 |
| | | 10/17/2018 | -- | 10.60 | NA | 45.98 |
| | | 12/06/2018 | -- | 9.10 | NA | 47.48 |
| | | 03/28/2019 | -- | 5.73 | NA | 50.85 |
| | | 09/22/2020 | -- | 10.84 | NA | 45.74 |
| MW07 | 56.46 | 04/26/2017 | -- | 7.85 | NA | 48.61 |
| | | 05/31/2017 | -- | 8.02 | NA | 48.44 |
| | | 10/17/2018 | -- | 9.25 | NA | 47.21 |
| | | 12/06/2018 | -- | 9.15 | NA | 47.31 |
| | | 03/28/2019 | -- | 7.95 | NA | 48.51 |
| | NA ^(g) | 09/22/2020 | -- | 10.42 ^(g) | NA ^(g) | NA ^(g) |
| MW08 (decommissioned in February 2020) | 56.48 | 04/26/2017 | -- | 7.38 | NA | 49.10 |
| | | 05/31/2017 | -- | 8.01 | NA | 48.47 |
| | | 10/17/2018 | -- | 10.05 | NA | 46.43 |
| | | 12/06/2018 | -- | 9.02 | NA | 47.46 |
| | | 03/28/2019 | -- | 6.85 | NA | 49.63 |
| MW09 | 56.66 | 09/22/2020 | -- | 9.26 | NA | 47.40 |
| | | 10/14/2020 | -- | 8.46 | NA | 48.20 |
| MW10 | 56.26 | 09/22/2020 | -- | 9.71 | NA | 46.55 |
| | | 10/14/2020 | -- | 9.21 | NA | 47.05 |
| MW11 | 56.2 | 09/22/2020 | -- | 10.48 | NA | 45.72 |
| MW12 | 56.39 | 09/22/2020 | -- | 10.24 | NA | 46.15 |

Table 3
Water Levels
VSF Properties, LLC, North Cascade Ford Property
Sedro-Woolley, Washington



NOTES:

-- = NAPL not observed.

MP = measuring point.

NA = not applicable.

NAPL = nonaqueous-phase liquid.

NAVD 88 = North American Vertical Datum of 1988.

NM = not measured.

^(a)Water level corrected for presence of NAPL, using assumed product density of 0.8 gram per cubic centimeter.

^(b)NAPL was observed, but interface probe was not available to measure NAPL thickness and water level.

^(c)NAPL was observed on probe and tubing, but measurable and extractable quantity was not present.

^(d)NAPL thickness was measured, but extractable quantity was not present.

^(e)NAPL was present, coating entire probe tip and tubing; coated probe tip prevented measurement of thickness or water level.

^(f)Water level may not be representative of groundwater elevation because screened interval was above low water table.

^(g)Well monument was compressed during implementation of the remedial action; therefore, a water level measurement was not collected. A new well monument was installed on 10/01/2020.

Table 4
Soil Analytical Results
VSF Properties, LLC, North Cascade Ford Property
Sedro-Woolley, Washington

| Location | Collection Date | Collection Depth (ft bgs) | GRO | DRO | ORO |
|---|-----------------|---------------------------|--------------------|-------|-------|
| Units: | | | mg/kg | mg/kg | mg/kg |
| MTCA Method A, Unrestricted Land Use CUL ⁽¹⁾ : | | | 100 ^(a) | 2,000 | 2,000 |
| GP79 | 9/14/20 | 8.5 | 5 U | -- | -- |
| MW10 | 9/14/20 | 11.0 | -- | 50 U | 250 U |
| <p>NOTES:</p> <p>Analytical results compared to screening criteria. There were no exceedances. Non-detect results ("U") were not compared with screening criteria.</p> <p>Detected results are in bold font.</p> <p>-- = not analyzed.</p> <p>CUL = cleanup level.</p> <p>DRO = diesel-range organics.</p> <p>ft bgs = feet below ground surface.</p> <p>GRO = gasoline-range organics.</p> <p>mg/kg = milligrams per kilogram (parts per million).</p> <p>MTCA = Model Toxics Control Act.</p> <p>ORO = lube oil-range organics.</p> <p>U = analyte not detected at or above method reporting limit.</p> <p>^(a)MTCA Method A CUL with no benzene present.</p> <p>REFERENCES:</p> <p>⁽¹⁾Ecology, Cleanup Levels and Risk Calculation (CLARC) table. August 2020.</p> | | | | | |

Table 5
Groundwater Analytical Results
VSF Properties, LLC, North Cascade Ford Property
Sedro-Woolley, Washington

| AOC | Location | Collection Date | Benzene | Ethylbenzene | Toluene | Xylenes (total) | GRO | DRO | ORO | Naphthalene | Total Naphthalenes ^(a) |
|------------------------------------|----------|-----------------|---------|--------------|---------|-----------------|----------------------|--------------|------------|-------------|-----------------------------------|
| Units: | | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| MTCA Method A CUL ⁽¹⁾ : | | | 5 | 700 | 1,000 | 1,000 | 1,000 ^(b) | 500 | 500 | 160 | 160 |
| 1 | MW01R | 9/22/20 | 1 U | 1 U | 1 U | 3.7 | 160 | 1,900 | 610 | -- | -- |
| | | 10/14/20 | 20 U | 20 U | 20 U | 60 U | 100 U | 200 | 260 U | 20 U | 20 U |
| | MW07 | 9/22/20 | 1 U | 1 U | 1 U | 3 U | 100 U | 130 | 250 U | -- | -- |
| | MW09 | 9/22/20 | 1 U | 1 U | 1 U | 3 U | 100 U | 640 | 620 | -- | -- |
| 2 | MW02R | 9/22/20 | 1 U | 1 U | 1 U | 3 U | 100 U | 780 | 450 | -- | -- |
| | MW04 | 9/22/20 | 1 U | 1 U | 1 U | 3 U | 100 U | 260 | 250 U | -- | -- |
| | MW06 | 9/22/20 | 1 U | 1 U | 1 U | 3 U | 100 U | 50 U | 250 U | -- | -- |
| | MW10 | 9/22/20 | 1 U | 1 U | 1 U | 3 U | 370 | 1,900 | 250 U | -- | -- |
| | | 10/14/20 | 20 U | 20 U | 20 U | 60 U | 550 | 2,000 | 400 | 65.1 | -- |
| | MW12 | 9/22/20 | 1 U | 1 U | 1 U | 3 U | 100 U | 50 U | 250 U | -- | -- |
| 3 | MW11 | 9/22/20 | 1 U | 30 | 1 U | 16 | 390 | 350 | 300 U | 14 | 18.8 |
| | | 9/22/20 | 1 U | 30 | 1 U | 17 | 380 | 200 | 250 U | 16 | 21.7 |

NOTES:
Shading (color key below) indicates values that exceed screening criteria; non-detect results ("U") were not compared with screening criteria.

MTCA A

Detected results are in **bold** font.

-- = not analyzed.

AOC = area of concern.

CUL = cleanup level.

DRO = diesel-range organics.

GRO = gasoline-range organics.

MTCA = Model Toxics Control Act.

NV = no value.

ORO = lube oil-range organics.

U = analyte not detected at or above method reporting limit.

ug/L = micrograms per liter (parts per billion).

^(a)Total naphthalenes are the sum of 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene.

^(b)MTCA Method A CUL with no detectable benzene.

REFERENCES:

⁽¹⁾Ecology, Cleanup Levels and Risk Calculation (CLARC) table. August 2020.

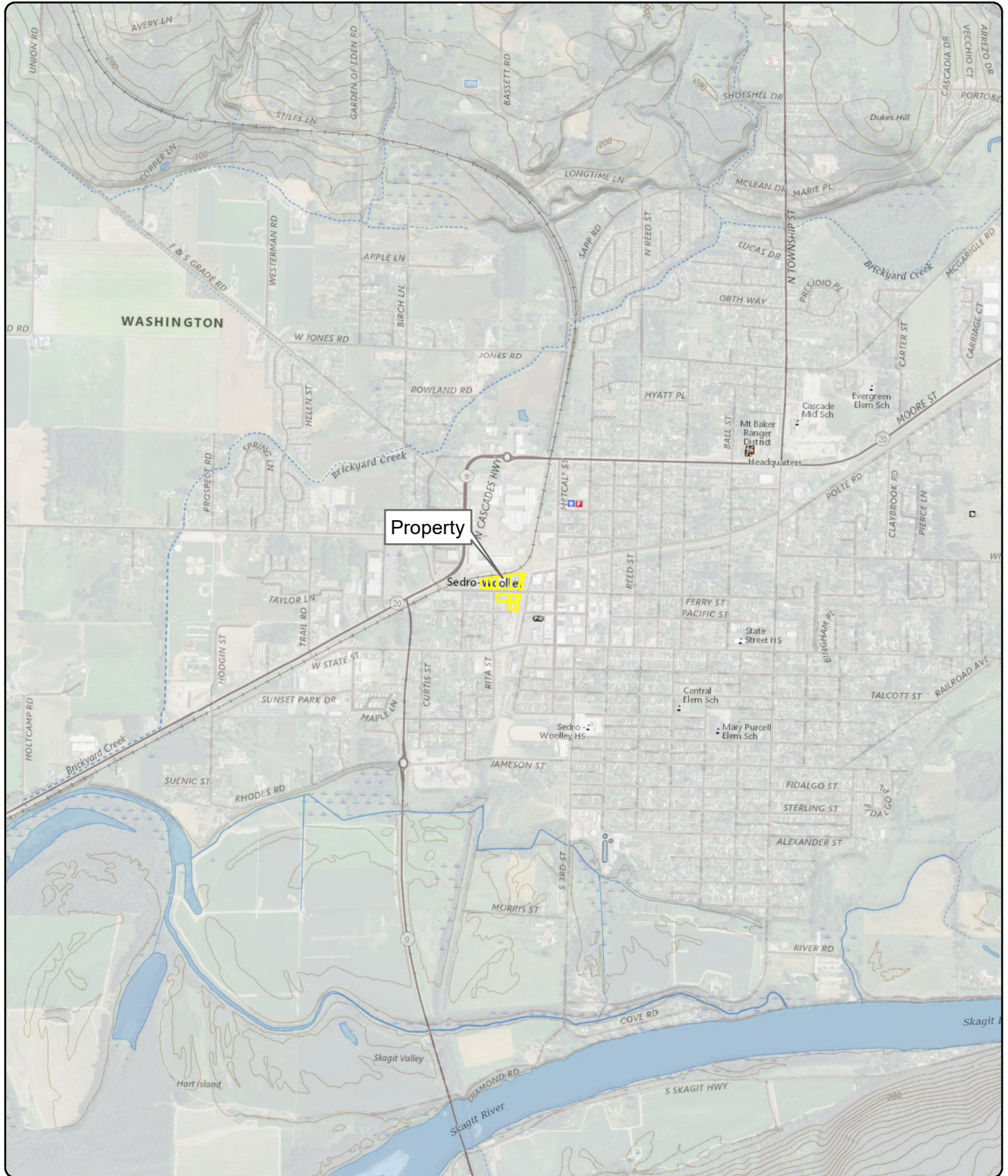
Table 6
EPH/VPH Groundwater Analytical Results
VSF Properties, LLC, North Cascade Ford Property
Sedro-Woolley, Washington



| Location | MW01R | MW10 |
|--|-------------|---------------|
| Sample Date | 10/14/2020 | 10/14/2020 |
| Extractable Petroleum Hydrocarbons (ug/L) | | |
| Aliphatic Hydrocarbons (C8-C10) | 89.7 UJ | 84.3 UJ |
| Aliphatic Hydrocarbons (C10-C12) | 44.9 UJ | 42.1 UJ |
| Aliphatic Hydrocarbons (C12-C16) | 44.9 UJ | 42.1 UJ |
| Aliphatic Hydrocarbons (C16-C21) | 44.9 UJ | 42.1 UJ |
| Aliphatic Hydrocarbons (C21-C34) | 44.9 UJ | 42.1 UJ |
| Aromatic Hydrocarbons (C8-C10) | 89.7 UJ | 84.3 UJ |
| Aromatic Hydrocarbons (C10-C12) | 44.9 UJ | 84.4 J |
| Aromatic Hydrocarbons (C12-C16) | 44.9 UJ | 105 J |
| Aromatic Hydrocarbons (C16-C21) | 44.9 UJ | 75.4 J |
| Aromatic Hydrocarbons (C21-C34) | 44.9 UJ | 42.1 UJ |
| Volatile Petroleum Hydrocarbons (ug/L) | | |
| Aliphatic Hydrocarbons (C5-C6) | 40 U | 40 U |
| Aliphatic Hydrocarbons (C6-C8) | 20 U | 20 U |
| Aliphatic Hydrocarbons (C8-C10) | 20 U | 20 U |
| Aliphatic Hydrocarbons (C10-C12) | 20 U | 128 |
| Aromatic Hydrocarbons (C8-C10) | 50 U | 50 U |
| Aromatic Hydrocarbons (C10-C12) | 77.3 | 742 |
| Aromatic Hydrocarbons (C12-C13) | 304 | 450 |
| NOTES: Detected results are in bold font. J = result is estimated. U = analyte not detected at or above reporting limit. ug/L = micrograms per liter (parts per billion). UJ = result is non-detect, limit reported is considered estimated. | | |

FIGURES





Property Address: 116 W Ferry Street, Sedro-Woolley, Washington
Source: US Geological Survey (1990) 7.5-minute
topographic quadrangle: Sedro-Woolley North
Section 24, Township 35 North, Range 4 East

Legend

 Property Parcel

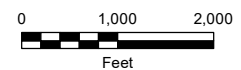
Figure 1 Property Location

North Cascade Ford Property
Sedro-Woolley, Washington



MAUL FOSTER LONGI
p. 971 544 2139 | www.maulfooster.com

This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.



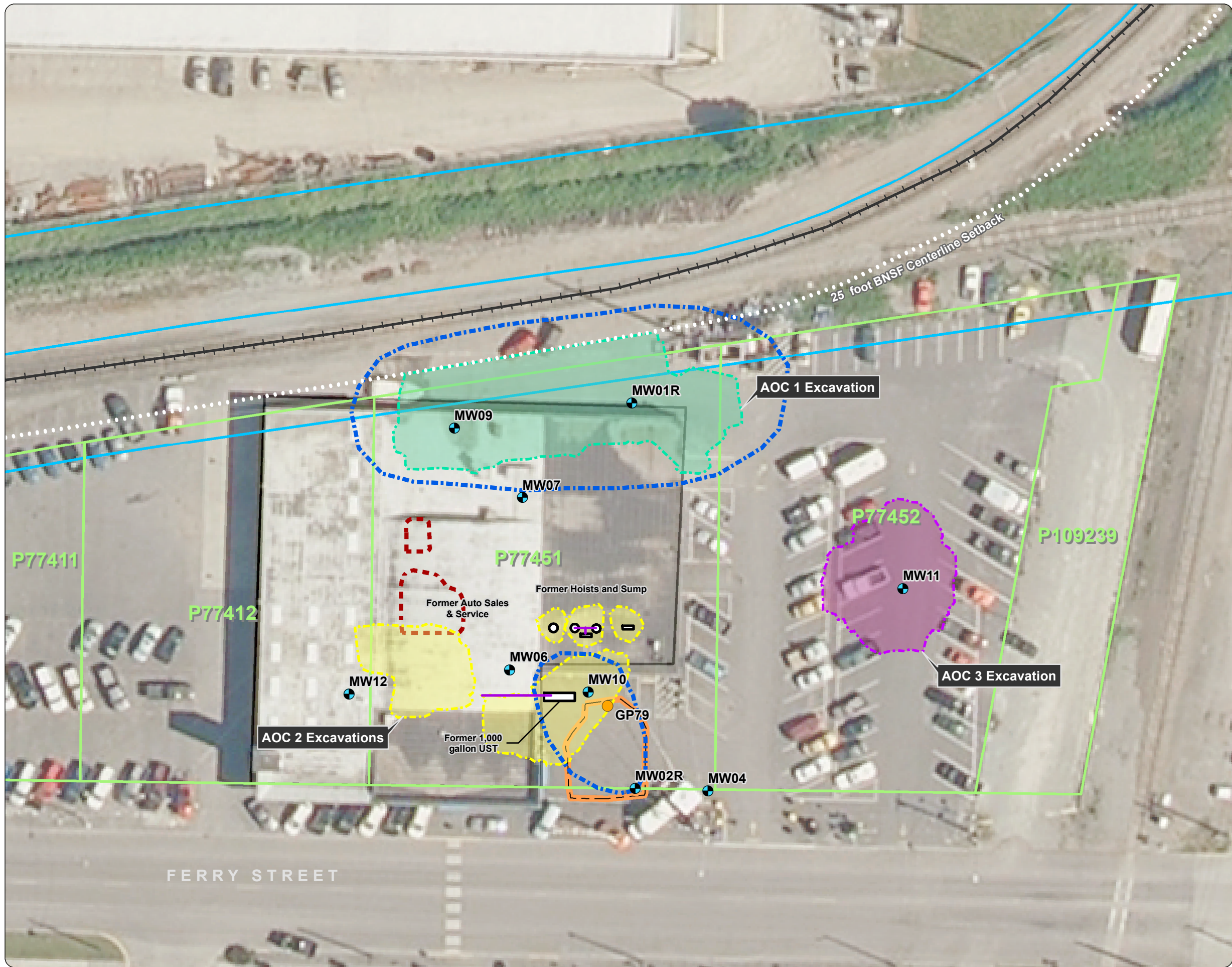


Figure 2
Compliance Monitoring
Well Network

North Cascade Ford Property
Sedro-Woolley, Washington

Legend

- Compliance Monitoring Well
- Boring
- Product Line
- AOC 1 Excavation (MFA, 2020)
- AOC 2 Excavation (MFA, 2020)
- AOC 3 Excavation (MFA, 2020)
- Estimated Extent of Petroleum Impacts in Groundwater
- UST Interim Action (MFA, 2016)
- Hoist Removal Excavation (ZGA, 2017)
- Former Building Footprint
- Property Parcel
- BNSF-Owned Parcel

Notes:
All features are approximate.

All structures on the property were removed prior to remedial action.

The excavations areas are set back from the BNSF railroad centerline by 25 feet.

The surveyed Property parcel boundaries do not coincide with the adjacent parcel boundaries obtained from Skagit County; therefore, there is an overlap between the Property and BNSF parcels.

AOC = area of concern.

BNSF = Burlington Northern Santa Fe.

Property = North Cascade Ford Property.

UST = underground storage tank.

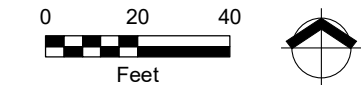
ZGA = Zipper Geo Associates.

Sources:
Aerial photograph obtained from ArcGIS Online.

Excavation extents surveyed by Pacific Geomatic Services, Inc. in March 2020.

Property parcel boundaries surveyed by Wilson Engineering, LLC.

Adjacent parcel boundaries obtained from Skagit County.



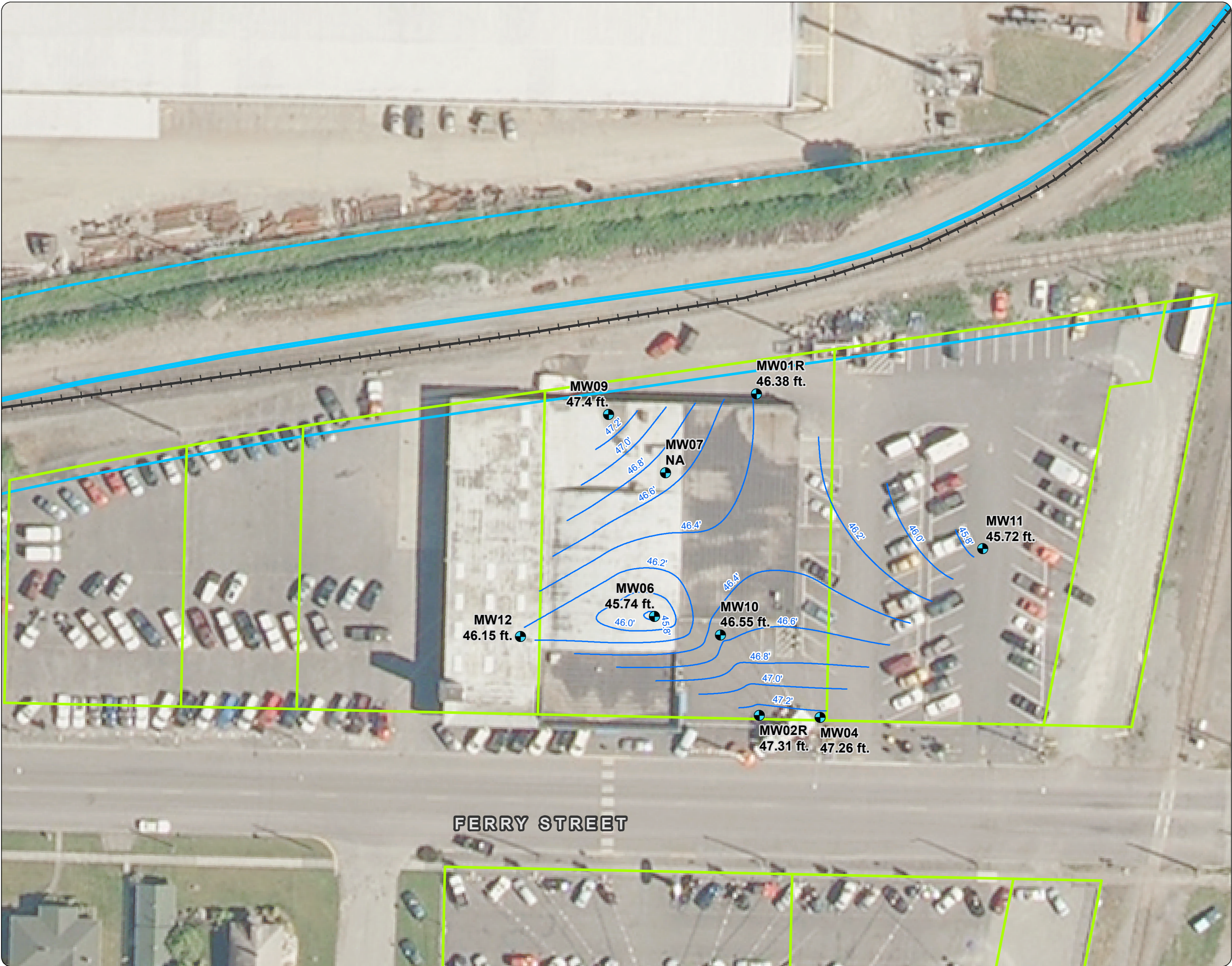


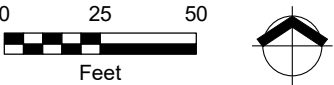
Figure 3
Groundwater Elevation
Contours - September 2020

North Cascade Ford Property
Sedro-Woolley, Washington

Legend

- Compliance Monitoring Well
- Groundwater Elevation Contour
(feet NAVD 88; 0.2-ft. interval)
- Property Parcel
- BNSF-Owned Parcel

Notes:
The surveyed Property parcel boundaries do not coincide with the adjacent parcel boundaries obtained from Skagit County; therefore, there is an overlap between the Property and BNSF parcels. Water levels measured on September 22, 2020. BNSF = Burlington Northern Santa Fe Railway. ft. = feet.
NA = not available. The well monument for MW07 was compressed during implementation of the remedial action; therefore, a water level measurement was not collected for incorporation into the potentiometric surface.
NAVD 88 = North American Vertical Datum of 1988.



Sources:
Adjacent parcel boundaries obtained from Skagit County.
Aerial photograph obtained from Mapbox.
Property parcel boundaries surveyed by Wilson Engineering, LLC.



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

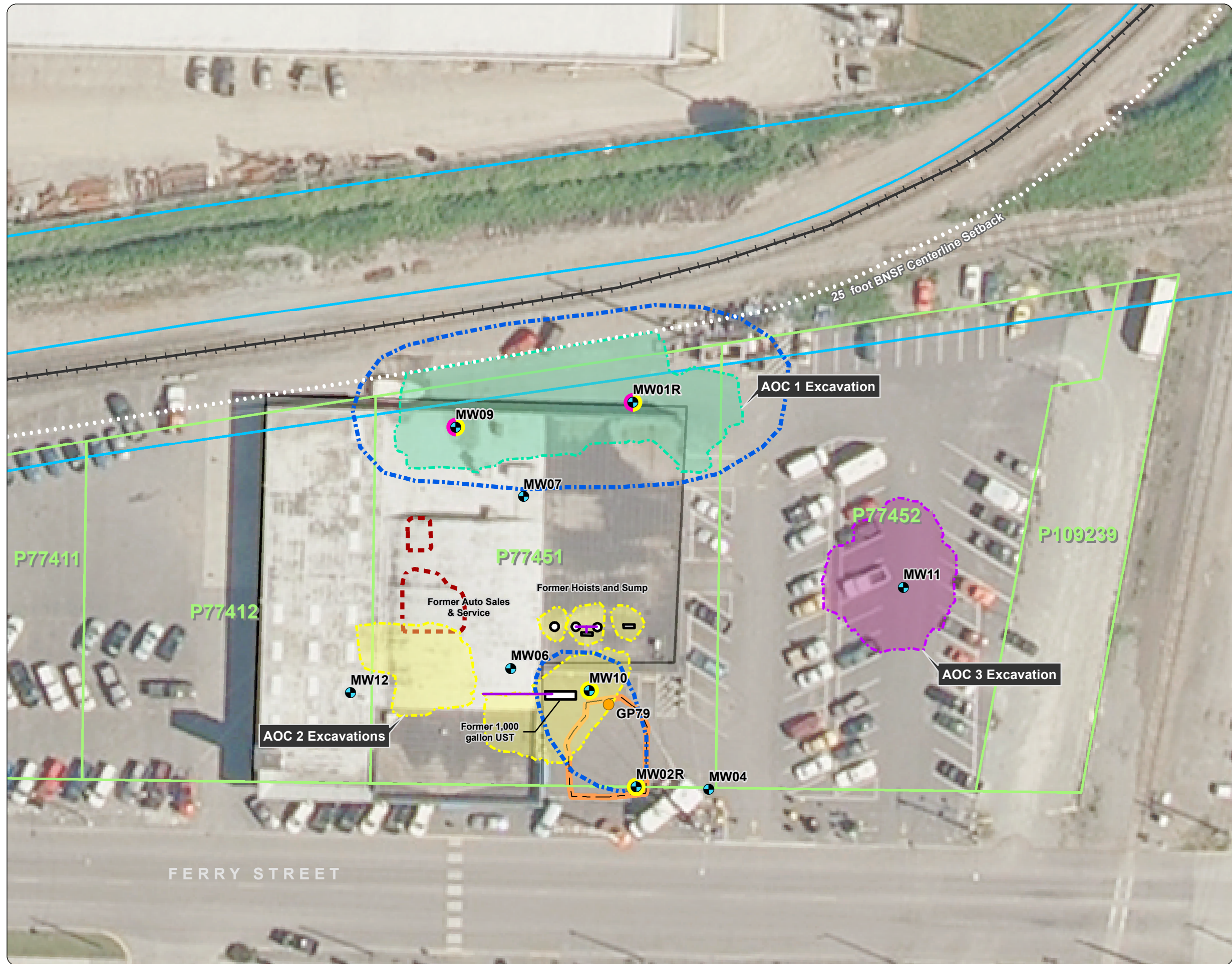
















Figure 4
Groundwater Exceedances
North Cascade Ford Property
Sedro-Woolley, Washington

Legend

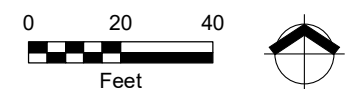
-  Compliance Monitoring Well
-  Boring
-  DRO Exceedance
-  ORO Exceedance
-  Product Line
-  AOC 1 Excavation (MFA, 2020)
-  AOC 2 Excavation (MFA, 2020)
-  AOC 3 Excavation (MFA, 2020)
-  Estimated Extent of Petroleum Impacts in Groundwater
-  UST Interim Action (MFA, 2016)
-  Hoist Removal Excavation (ZGA, 2017)
-  Former Building Footprint
-  Property Parcel
-  BNSF-Owned Parcel

Notes:

All features are approximate.
All structures on the property were removed prior to remedial action.
The excavations areas are set back from the BNSF railroad centerline by 25 feet.
The surveyed Property parcel boundaries do not coincide with the adjacent parcel boundaries obtained from Skagit County; therefore, there is an overlap between the Property and BNSF parcels.
AOC = area of concern.
BNSF = Burlington Northern Santa Fe.
DRO = diesel-range organics.
ORO = lube oil-range organics.
Property = North Cascade Ford Property.
UST = underground storage tank.
ZGA = Zipper Geo Associates.

Sources:

Aerial photograph obtained from ArcGIS Online.
Excavation extents surveyed by Pacific Geomatic
Services, Inc. in March 2020.
Property parcel boundaries surveyed by Wilson
Engineering, LLC.
Adjacent parcel boundaries obtained from Skagit County.



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Figure 5
Diesel-Range Organics Concentrations
North Cascade Ford Property
Sedro-Woolley, Washington

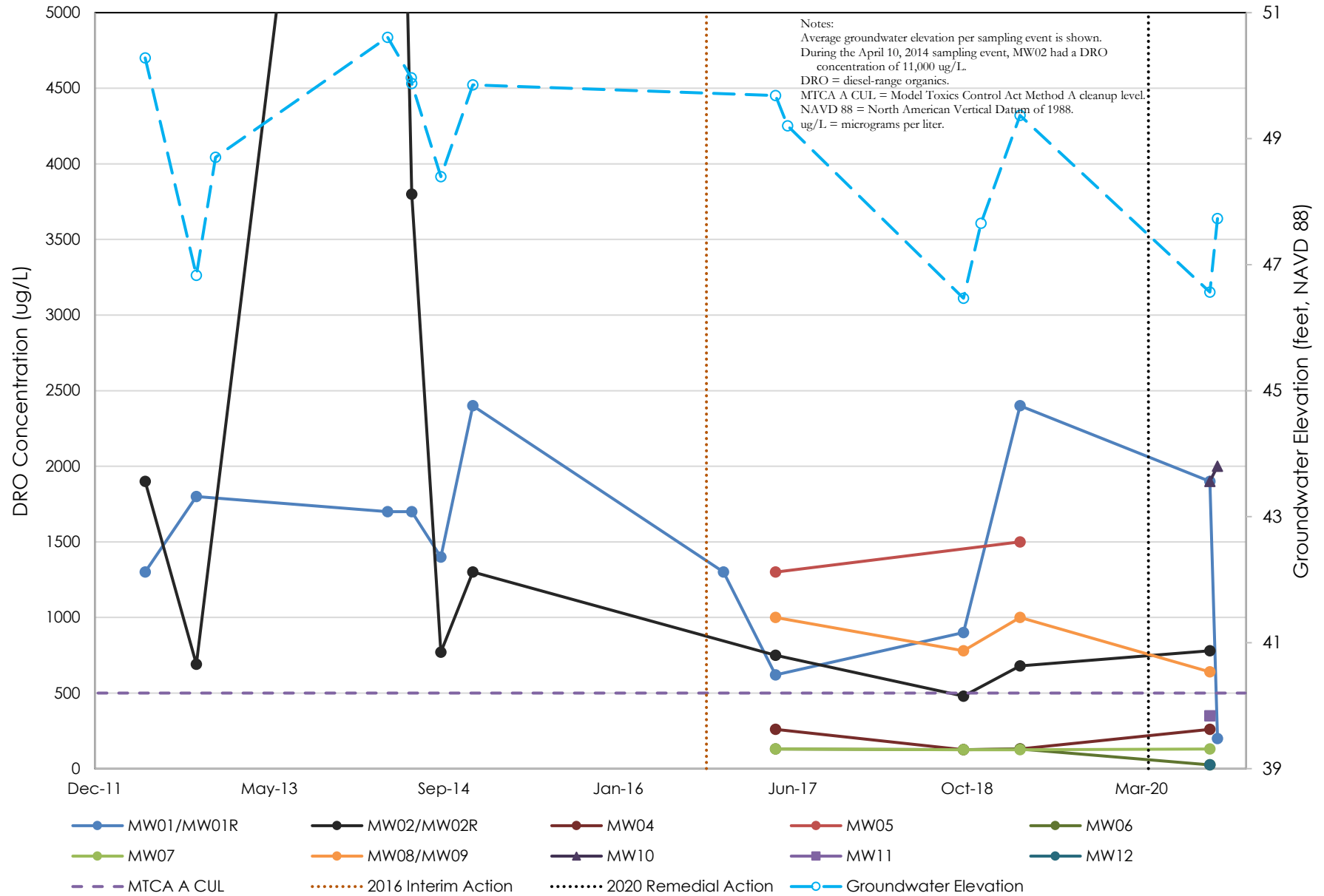
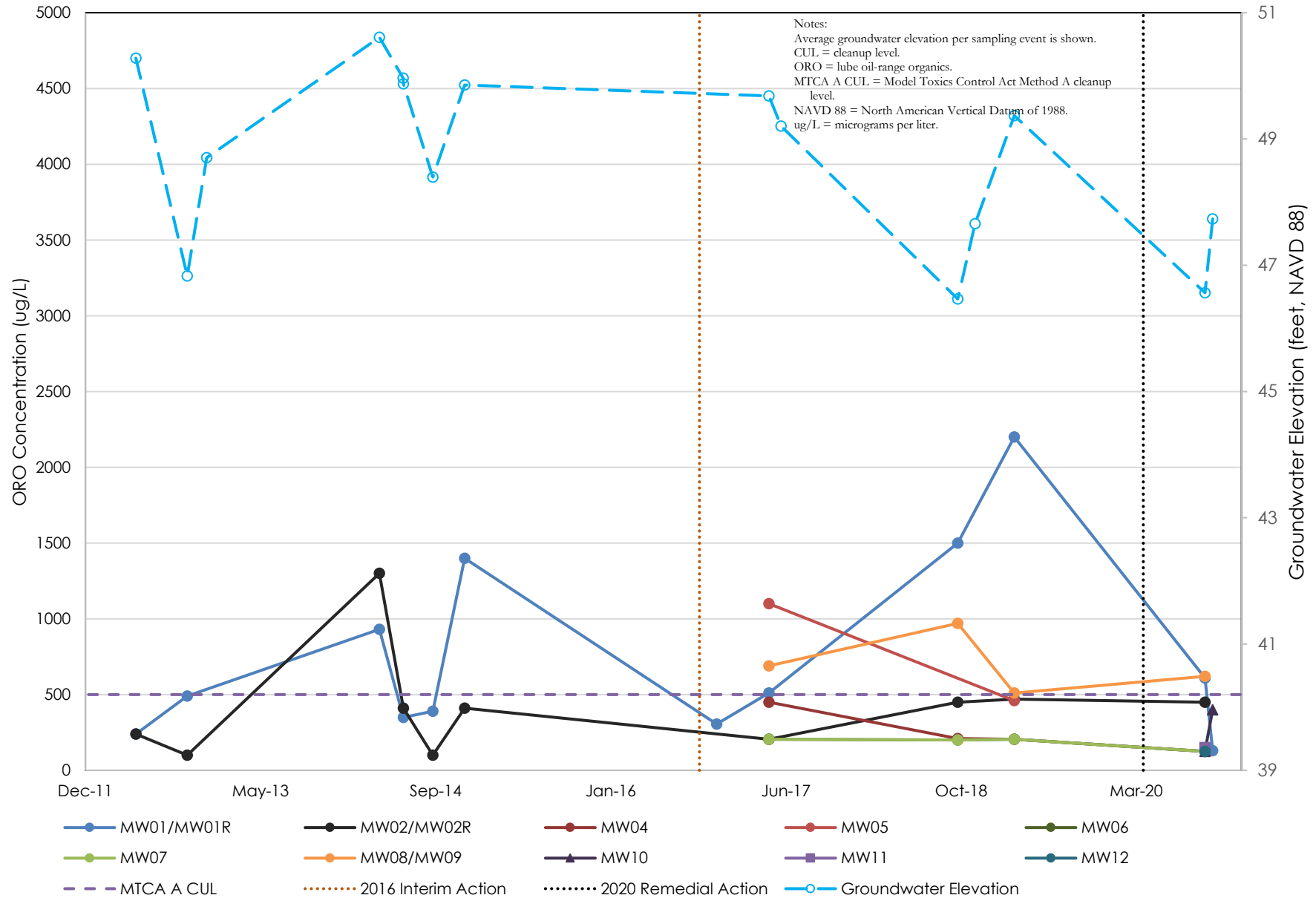


Figure 6
Lube-Oil-Range Organics Concentrations
North Cascade Ford Property
Sedro-Woolley, Washington



ATTACHMENT A

BORING LOGS





MAUL FOSTER ALONGI

Geologic Borehole Log

Project Number
0747.01.12Well Number
GP79Sheet
1 of 1

| | | | |
|--------------------|--|--------------------------|-----------|
| Project Name | VSF Properties, LLC - North Cascade Ford Compliance Monitoring | TOC Elevation (feet) | |
| Project Location | 116 W Ferry Street, Sedro-Woolley, Washington | Surface Elevation (feet) | |
| Start/End Date | 9/14/2020 to 9/14/2020 | Northing | |
| Driller/Equipment | Holt Services, Inc., Mike Running/Geoprobe | Easting | |
| Geologist/Engineer | A. Bixby | Total Depth of Borehole | 10.0-feet |
| Sample Method | Direct Push | Outer Hole Diam | 2.25-inch |

| Depth (feet, BGS) | Well Details | | Sample Data | | Lithologic Column | Soil Description |
|----------------------|-----------------|---------------------|-------------|--------------|----------------------|---|
| | Water Levels | Percent Recovery | Sample ID | PID (ppm) | | |
| 1 | | 60 | | 0.0 | | 0 to 3.0 feet: GRAVELLY SAND WITH SILT (SW-SM); light gray; 10% fines; 50% sand, fine to coarse grained; 40% gravel, fine size, angular; loose; trace orange mottling; no odor; dry to moist. (FILL) @ 0.5 feet: Color changes to grayish brown. |
| 2 | | | | | | |
| 3 | | | | 0.0 | | 3.0 to 5.0 feet: No recovery. |
| 4 | | | | | | |
| 5 | | 80 | | 0.0 | | 5.0 to 8.0 feet: GRAVELLY SAND WITH SILT (SW-SM); grayish brown; 10% fines; 50% sand, fine to coarse grained; 40% gravel, fine size, angular; loose; trace orange mottling; no odor; moist. (FILL) @ 5.3 to 5.5 feet: Light gray; dry. |
| 6 | | | | | | |
| 7 | | | | 0.0 | | 8.0 to 9.0 feet: SAND (SP); gray; 100% sand, medium grained; loose; trace reddish sand grains; no odor; no sheen; wet. |
| 8 | | | | | | |
| 9 | | | GP79-S-8.5 | | | 9.0 to 10.0 feet: No recovery. |
| 10 | | | | | | |

Total Depth = 10.0 feet bgs

NOTES:

1. bgs = below ground surface. 2. Depths are relative to feet below ground surface. 3. ID = identification. 4. PID = photoionization detector. 5. PID results shown in parts per million.

Borehole Abandonment Details

0 to 10.0 feet: 2.25-inch borehole.

0 to 10.0 feet: Bentonite chips hydrated with potable water.

▽ Water level at approximately 8.0 feet bgs at time of drilling.



MAUL FOSTER ALONGI

Geologic Borehole Log

Project Number
0747.01.12Well Number
MW01RSheet
1 of 1

| | | | |
|--------------------|--|--------------------------|-----------|
| Project Name | VSF Properties, LLC - North Cascade Ford Compliance Monitoring | TOC Elevation (feet) | |
| Project Location | 116 W Ferry Street, Sedro-Woolley, Washington | Surface Elevation (feet) | |
| Start/End Date | 9/14/2020 to 9/14/2020 | Northing | |
| Driller/Equipment | Holt Services, Inc., Mike Running/Geoprobe | Easting | |
| Geologist/Engineer | A. Bixby | Total Depth of Borehole | 15.0-feet |
| Sample Method | Direct Push | Outer Hole Diam | 2.25-inch |

| Depth (feet, BGS) | Well Details | | Sample Data | Lithologic Column | Soil Description |
|----------------------|-----------------|---------------------|-------------|----------------------|--|
| | Water Levels | Percent Recovery | Sample ID | PID (ppm) | |
| 1 | | | | | 0 to 3.5 feet: GRAVELLY SAND WITH SILT (SW-SM); dark grayish brown; 10% fines; 75% sand, fine to coarse grained; 15% gravel, fine size, angular to subrounded; loose; trace brick; no odor; moist. (FILL) |
| 2 | | | | | |
| 3 | | 70 | | | 3.5 to 5.0 feet: No recovery. |
| 4 | | | | | |
| 5 | | | | | 5.0 to 5.7 feet: GRAVELLY SAND WITH SILT (SW-SM); dark grayish brown; 10% fines; 75% sand, fine to coarse grained; 15% gravel, fine size, angular to subrounded; loose; trace brick; no odor; moist. (FILL) |
| 6 | | | | | |
| 7 | | | | | 5.7 to 10.0 feet: No recovery; loose pea gravel. |
| 8 | | | | | |
| 9 | | 14 | | | 10.0 to 11.0 feet: SANDY SILT (MH); brownish gray; 60% fines, medium to high plasticity; 40% sand, fine to medium grained; soft; trace gravel, fine, angular; slight petroleum hydrocarbon-like odor; moist. |
| 10 | | | | | |
| 11 | | | | | 11.0 to 12.4 feet: SAND WITH SILT (SP-SM); brownish gray; 10% fines; 90% sand, fine grained; dense; slight petroleum hydrocarbon-like odor; no sheen; wet. |
| 12 | | | | | |
| 13 | | 48 | | | @ 12.2 feet: Silt laminae. |
| 14 | | | | | |
| 15 | | | | | 12.4 to 15.0 feet: No recovery. |

Total Depth = 15.0 feet bgs

NOTES:

1. bgs = below ground surface. 2. Depths are relative to feet below ground surface. 3. ID = identification. 4. PID = photoionization detector. 5. PID results shown in parts per million.

Borehole Completion Details

0 to 15.0 feet: 2.25-inch borehole.
 0 to 2.0 feet: Concrete.
 2.0 to 3.0 feet: Bentonite chips hydrated with potable water.
 3.0 to 15.0 feet: 10x20 silica sand filter pack.

Monitoring Well Completion Details

Washington State Department of Ecology Well No. BMP360.
 Traffic-grade, flush-mounted, monitoring well vault.
 0 to 5.0 feet: 2-inch diameter, schedule 40, polyvinyl chloride, riser pipe.
 5.0 to 14.75 feet: 2-inch diameter, schedule 40, polyvinyl chloride, 0.010 machine slot, prepacked well screen.
 14.75 to 15.0 feet: 2-inch, schedule 40, polyvinyl chloride pipe end cap.

▽ Water level at approximately 11.0 feet bgs at time of drilling.



MAUL FOSTER ALONGI

Geologic Borehole Log

Project Number
0747.01.12Well Number
MW09Sheet
1 of 2

| | | | |
|--------------------|--|--------------------------|-----------|
| Project Name | VSF Properties, LLC - North Cascade Ford Compliance Monitoring | TOC Elevation (feet) | |
| Project Location | 116 W Ferry Street, Sedro-Woolley, Washington | Surface Elevation (feet) | |
| Start/End Date | 9/14/2020 to 9/14/2020 | Northing | |
| Driller/Equipment | Holt Services, Inc., Mike Running/Geoprobe | Easting | |
| Geologist/Engineer | A. Bixby | Total Depth of Borehole | 20.0-feet |
| Sample Method | Direct Push | Outer Hole Diam | 2.25-inch |

| Depth (feet, BGS) | Well Details | | Percent Recovery | Sample Data | | Lithologic Column | Soil Description |
|----------------------|-----------------|-----------------|---------------------|-------------|--------------|----------------------|---|
| | | Water Levels | | Sample ID | PID (ppm) | | |
| 1 | | | 50 | | | 0.9 | 0 to 2.5 feet: GRAVELLY SAND WITH SILT (SW-SM); grayish brown; 10% fines; 70% sand, fine to coarse grained; 20% gravel, fine size, angular to subrounded; loose; trace coarse gravel; no odor; dry. (FILL) |
| 2 | | | | | | | @ 2.0 to 2.5 feet: Increasing gravel to 30%. |
| 3 | | | | | | 0.4 | 2.5 to 5.0 feet: No recovery. |
| 4 | | | | | | | |
| 5 | | | 56 | | | 0.9 | 5.0 to 6.2 feet: GRAVELLY SAND (SW); grayish brown; 5% fines; 65% sand, fine to coarse grained; 30% gravel, fine size, angular to subrounded; loose; no odor; dry. (FILL) |
| 6 | | | | | | | 6.2 to 7.8 feet: GRAVEL (GP); grayish brown; 10% sand, medium grained; 90% gravel, fine size, subangular to subrounded; loose; trace coarse gravel; no odor; moist. (PEA GRAVEL) |
| 7 | | | | | | 0.0 | 7.8 to 10.0 feet: No recovery. |
| 8 | | | | | | | |
| 9 | | | 56 | | | | 10.0 to 11.0 feet: GRAVEL (GP); grayish brown; 10% sand, medium grained; 90% gravel, fine size, subangular to subrounded; loose; no odor; moist. (PEA GRAVEL) |
| 10 | | | | | | 65.4 | 11.0 to 12.5 feet: SILT WITH SAND (MH); grayish brown; 80% fines, high plasticity; 20% sand, very fine grained; firm; trace organic material (woody debris) in upper 3 inches; slight petroleum hydrocarbon-like odor; moist. |
| 11 | | | | | | | 12.5 to 12.8 feet: SAND (SP); gray; 5% fines; 95% sand, fine grained; loose; trace reddish sand grains; slight petroleum hydrocarbon-like odor; moist. |
| 12 | | | | | | 1.1 | 12.8 to 15.0 feet: No recovery. |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |

MFA BOREHOLE W/ WELL W: GINTGINTWPROJECTS0747.0112 COMPLIANCE MONITORING MW01R TO MW12.GPJ 9/18/20



MAUL FOSTER ALONGI

Geologic Borehole LogProject Number
0747.01.12Well Number
MW09Sheet
2 of 2

| Depth (feet, BGS) | Well Details | | Sample Data | | Lithologic Column | Soil Description |
|----------------------|--------------|------------------|-------------|-----------|-------------------|--|
| | Water Levels | Percent Recovery | Sample ID | PID (ppm) | | |
| 16 | | | | 1.3 | | 15.0 to 16.7 feet: SAND (SP); gray; 5% fines; 95% sand, fine grained; loose; trace reddish sand grains; slight petroleum hydrocarbon-like odor; moist. |
| 17 | | | | 1.6 | | 16.7 to 17.5 feet: SILT (MH); gray; 95% fines, medium to high plasticity; 5% sand, fine grained; soft; no odor; no sheen; wet. |
| 18 | | | | 1.1 | | 17.5 to 18.2 feet: SILTY SAND (SM); grayish brown; 20% fines; 80% sand, very fine grained; loose; no odor; no sheen; wet. |
| 19 | | | | | | @ 18.1 feet: Silt laminae. |
| 20 | | | | | | 18.2 to 20.0 feet: No recovery. |

Total Depth = 20.0 feet bgs

NOTES:

1. bgs = below ground surface. 2. Depths are relative to feet below ground surface. 3. ID = identification. 4. PID = photoionization detector. 5. PID results shown in parts per million.

Borehole Completion Details

0 to 20.0 feet: 2.25-inch borehole.

0 to 2.0 feet: Concrete.

2.0 to 3.0 feet: Bentonite chips hydrated with potable water.

3.0 to 20.0 feet: 10x20 silica sand filter pack.

Monitoring Well Completion Details

Washington State Department of Ecology Well No. BMP359.

Traffic-grade, flush-mounted, monitoring well vault.

0 to 5.0 feet: 2-inch diameter, schedule 40, polyvinyl chloride, riser pipe.

5.0 to 19.75 feet: 2-inch diameter, schedule 40, polyvinyl chloride, 0.010 machine slot, prepacked well screen.

19.75 to 20.0 feet: 2-inch, schedule 40, polyvinyl chloride pipe end cap.

∇ Water level at approximately 12.5 feet bgs at time of drilling.



MAUL FOSTER ALONGI

Geologic Borehole Log

Project Number
0747.01.12Well Number
MW10Sheet
1 of 2

| | | | |
|--------------------|--|--------------------------|-----------|
| Project Name | VSF Properties, LLC - North Cascade Ford Compliance Monitoring | TOC Elevation (feet) | |
| Project Location | 116 W Ferry Street, Sedro-Woolley, Washington | Surface Elevation (feet) | |
| Start/End Date | 9/14/2020 to 9/14/2020 | Northing | |
| Driller/Equipment | Holt Services, Inc., Mike Running/Geoprobe | Easting | |
| Geologist/Engineer | A. Bixby | Total Depth of Borehole | 20.0-feet |
| Sample Method | Direct Push | Outer Hole Diam | 2.25-inch |

| Depth (feet, BGS) | Well Details | | Sample Data | Lithologic Column | Soil Description |
|----------------------|-----------------|---------------------|-------------|----------------------|---|
| | Water Levels | Percent Recovery | Sample ID | PID (ppm) | |
| 1 | | | | | 0 to 2.8 feet: GRAVELLY SAND WITH SILT (SW-SM); grayish brown; 10% fines; 50% sand, fine to coarse grained; 40% gravel, fine size, angular to subrounded; loose; trace orange mottling; no odor; dry to moist. (FILL) |
| 2 | | | | | |
| 3 | | 56 | | | @ 2.7 feet: 1-inch wood chunk. 2.8 to 5.0 feet: No recovery. |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | 1.3 | 5.0 to 7.8 feet: GRAVELLY SAND WITH SILT (SW-SM); grayish brown; 10% fines; 50% sand, fine to coarse grained; 40% gravel, fine size, angular to subrounded; loose; trace orange mottling; no odor; dry to moist. (FILL) |
| 7 | | | | | |
| 8 | | 60 | | 1592 | 7.8 to 8.0 feet: SAND (SP); grayish brown; 100% sand, medium grained; loose; trace reddish sand grains; slight petroleum hydrocarbon-like odor; wet. 8.0 to 10.0 feet: No recovery. |
| 9 | | | | | |
| 10 | | | | 34.6 | 10.0 to 10.6 feet: SILT (ML); grayish brown; 90% fines, medium plasticity; 10% sand, fine to medium grained; soft; trace organic material (woody debris); no odor; no sheen; moist to wet. |
| 11 | | | | | 10.6 to 11.5 feet: SAND WITH SILT (SP-SM); grayish brown; 10% fines; 90% sand, very fine grained; medium dense; slight petroleum hydrocarbon-like odor; no sheen; wet. |
| 12 | | | | 18.0 | @ 11.4 feet: Silt laminae. 11.5 to 15.0 feet: No recovery. |
| 13 | | 30 | | | |
| 14 | | | | | |
| 15 | | | | | |

MFA BOREHOLE W/WELL W:\GINT\GINT\PROJECTS\0747.01\12 COMPLIANCE MONITORING\MW01R TO MW12.GPJ 9/18/20



MAUL FOSTER ALONGI

Geologic Borehole LogProject Number
0747.01.12Well Number
MW10Sheet
2 of 2

| Depth (feet, BGS) | Well Details | | Sample Data | | PID (ppm) | Lithologic Column | Soil Description |
|----------------------|-----------------|---------------------|-------------|--|--------------|----------------------|--|
| | Water Levels | Percent Recovery | Sample ID | | | | |
| 16 | | | | | 6.6 | | 15.0 to 16.1 feet: SILT (ML); grayish brown; 100% fines, medium plasticity; soft; slight petroleum hydrocarbon-like odor; slight sheen; wet. |
| 17 | | | | | | | 16.1 to 18.1 feet: SAND (SP); grayish brown; 5% fines; 95% sand, fine grained; loose; no odor; no sheen; wet. |
| 18 | | 62 | | | 5.0 | | 18.1 to 20.0 feet: No recovery. |
| 19 | | | | | | | |
| 20 | | | | | | | |

Total Depth = 20.0 feet bgs

NOTES:

1. bgs = below ground surface. 2. Depths are relative to feet below ground surface. 3. ID = identification. 4. PID = photoionization detector. 5. PID results shown in parts per million.

Borehole Completion Details

0 to 20.0 feet: 2.25-inch borehole.

0 to 2.0 feet: Concrete.

2.0 to 3.0 feet: Bentonite chips hydrated with potable water.

3.0 to 20.0 feet: 10x20 silica sand filter pack.

Monitoring Well Completion Details

Washington State Department of Ecology Well No. BMP357.

Traffic-grade, flush-mounted, monitoring well vault.

0 to 5.0 feet: 2-inch diameter, schedule 40, polyvinyl chloride, riser pipe.

5.0 to 19.75 feet: 2-inch diameter, schedule 40, polyvinyl chloride, 0.010 machine slot, prepacked well screen.

19.75 to 20.0 feet: 2-inch, schedule 40, polyvinyl chloride pipe end cap.

▽ Water level at approximately 7.8 feet bgs at time of drilling.



MAUL FOSTER ALONGI

Geologic Borehole Log

Project Number
0747.01.12Well Number
MW11Sheet
1 of 2

| | | | |
|--------------------|--|--------------------------|-----------|
| Project Name | VSF Properties, LLC - North Cascade Ford Compliance Monitoring | TOC Elevation (feet) | |
| Project Location | 116 W Ferry Street, Sedro-Woolley, Washington | Surface Elevation (feet) | |
| Start/End Date | 9/14/2020 to 9/14/2020 | Northing | |
| Driller/Equipment | Holt Services, Inc., Mike Running/Geoprobe | Easting | |
| Geologist/Engineer | A. Bixby | Total Depth of Borehole | 25.0-feet |
| Sample Method | Direct Push | Outer Hole Diam | 2.25-inch |

| Depth (feet, BGS) | Well Details | | Sample Data | Lithologic Column | Soil Description |
|----------------------|-----------------|---------------------|-------------|----------------------|--|
| | Water Levels | Percent Recovery | Sample ID | PID (ppm) | |
| 1 | | | | | 0 to 2.8 feet: GRAVELLY SAND WITH SILT (SW-SM); grayish brown; 15% fines; 65% sand, fine to coarse grained; 20% gravel, fine to medium size, angular to rounded; loose; no odor; dry to moist. (FILL) |
| 2 | | | | | |
| 3 | | 56 | | 0.1 | 2.8 to 5.0 feet: No recovery. |
| 4 | | | | | |
| 5 | | | | 0.3 | 5.0 to 5.8 feet: GRAVELLY SAND WITH SILT (SW-SM); grayish brown; 15% fines; 65% sand, fine to coarse grained; 20% gravel, fine to medium size, angular to rounded; loose; no odor; moist. (FILL) |
| 6 | | | | | 5.8 to 7.8 feet: GRAVEL (GP); brown; 10% sand, medium grained; 90% gravel, fine size, subangular to subrounded; loose; no odor; moist. (PEA GRAVEL) |
| 7 | | 56 | | 0.3 | |
| 8 | | | | | 7.8 to 10.0 feet: No recovery. |
| 9 | | | | | |
| 10 | | | | 152.1 | 10.0 to 12.4 feet: SILT WITH SAND (ML); brownish gray; 80% fines, medium plasticity; 20% sand, fine grained; firm; trace organic material (woody debris); petroleum hydrocarbon-like odor in upper 1.5 feet; moist to wet. |
| 11 | | | | 141.2 | @ 11.4 feet: Sand laminae, medium grained. |
| 12 | | | | | @ 12.0 feet: Becomes wet; increasing sand with depth to 30%. |
| 13 | | 58 | | 33.0 | 12.4 to 15.0 feet: No recovery. |
| 14 | | | | | |
| 15 | | | | | |

MFA BOREHOLE W/WELL W:\GINT\GINT\PROJECTS\0747.01\12 COMPLIANCE MONITORING\MW01R TO MW12.GPJ 9/18/20



MAUL FOSTER ALONGI

Geologic Borehole Log

Project Number
0747.01.12Well Number
MW11Sheet
2 of 2

| Depth (feet, BGS) | Well Details | | Sample Data | | PID (ppm) | Lithologic Column | Soil Description |
|----------------------|--------------|-----------------|---------------------|-----------|--------------|----------------------|---|
| | | Water Levels | Percent Recovery | Sample ID | | | |
| 16 | | | | | 11.5 | | 15.0 to 18.3 feet: SILT WITH SAND (ML); brownish gray; 80% fines, medium plasticity; 20% sand, fine grained; firm; trace organic material (woody debris); no odor; moist. |
| 17 | | | | | 39.4 | | @ 16.5 feet: Black organic laminae. |
| 18 | | | 66 | | 24.9 | | |
| 19 | | | | | | | 18.3 to 20.0 feet: No recovery. |
| 20 | | | | | 34.0 | | 20.0 to 21.7 feet: SILT WITH SAND (ML); brownish gray; 80% fines, medium plasticity; 20% sand, fine grained; firm; trace organic material (woody debris); no odor; moist. |
| 21 | | | | | 29.0 | | @ 21.3 feet: Sand laminae, medium grained. |
| 22 | | | | | | | @ 21.6 feet: Sand laminae, medium grained. |
| 23 | | | 32 | | | | 21.7 to 25.0 feet: No recovery. |
| 24 | | | | | | | |
| 25 | | | | | | | |

Total Depth = 25.0 feet bgs

NOTES:

1. bgs = below ground surface. 2. Depths are relative to feet below ground surface. 3. ID = identification. 4. PID = photoionization detector. 5. PID results shown in parts per million.

Borehole Completion Details

0 to 20.0 feet: 2.25-inch borehole.
 0 to 2.0 feet: Concrete.
 2.0 to 3.0 feet: Bentonite chips hydrated with potable water.
 3.0 to 20.0 feet: 10x20 silica sand filter pack.

Monitoring Well Completion Details

Washington State Department of Ecology Well No. BMP361.
 Traffic-grade, flush-mounted, monitoring well vault.
 0 to 5.0 feet: 2-inch diameter, schedule 40, polyvinyl chloride, riser pipe.
 5.0 to 19.75 feet: 2-inch diameter, schedule 40, polyvinyl chloride, 0.010 machine slot, prepacked well screen.
 19.75 to 20.0 feet: 2-inch, schedule 40, polyvinyl chloride pipe end cap.

⚠ Water level at approximately 12.0 feet bgs at time of drilling.



MAUL FOSTER ALONGI

Geologic Borehole LogProject Number
0747.01.12Well Number
MW12Sheet
1 of 1

| | | | |
|--------------------|---|--------------------------|------------------|
| Project Name | VSF Properties, LLC - North Cascade Ford Compliance Monitoring | TOC Elevation (feet) | |
| Project Location | 116 W Ferry Street, Sedro-Woolley, Washington | Surface Elevation (feet) | |
| Start/End Date | 9/14/2020 to 9/14/2020 | Northing | |
| Driller/Equipment | Holt Services, Inc., Mike Running/Geoprobe | Easting | |
| Geologist/Engineer | A. Bixby | Total Depth of Borehole | 15.0-feet |
| Sample Method | Direct Push | Outer Hole Diam | 2.25-inch |

| Depth (feet, BGS) | Well Details | | Sample Data | Lithologic Column | Soil Description |
|----------------------|-----------------|---------------------|-------------|----------------------|---|
| | Water Levels | Percent Recovery | Sample ID | PID (ppm) | |
| 1 | | | | | 0 to 1.2 feet: GRAVELLY SAND WITH SILT (SW-SM); brown; 15% fines; 60% sand, fine to coarse grained; 15% gravel, fine size, subangular to rounded; loose; no odor; moist. (FILL) |
| 2 | | | | 0.3 | 1.2 to 2.5 feet: SILTY SAND (SM); brown; 20% fines; 80% sand, very fine grained; dense; trace orange mottling; no odor; moist. |
| 3 | | 50 | | 1.0 | @ 1.6 feet: Dark brown laminae. 2.5 to 5.0 feet: No recovery. |
| 4 | | | | | |
| 5 | | | | 2.7 | 5.0 to 6.8 feet: SILTY SAND (SM); brown; 40% fines, medium plasticity; 60% sand, very fine to medium grained; dense; no odor; moist. |
| 6 | | | | | @ 6.0 feet: Fines decrease to 30%. |
| 7 | | 60 | | 1.7 | 6.8 to 7.5 feet: SILT WITH SAND (ML); brown; 80% fines, medium plasticity; 20% sand, very fine to fine grained; soft; no odor; no sheen; wet. |
| 8 | | | | | @ 7.2 feet: Sand laminae. |
| 9 | | | | | 7.5 to 7.8 feet: SILTY SAND (SM); brown; 40% fines, medium plasticity; 60% sand, very fine to medium grained; dense; no odor; moist. |
| 10 | | | | | 7.8 to 10.0 feet: No recovery. |
| 11 | | | | 0.5 | 10.0 to 13.0 feet: SILT (MH); grayish brown; 90% fines, medium to high plasticity; 10% sand, fine grained; soft; no odor; no sheen; wet. |
| 12 | | | | 0.7 | |
| 13 | | 70 | | | @ 12.5 feet: Sand laminae. |
| 14 | | | | 0.7 | 13.0 to 13.5 feet: SAND (SP); grayish brown; 100% sand, medium grained; loose; trace reddish sand grains; slight petroleum hydrocarbon-like odor; no sheen; wet. |
| 15 | | | | | 13.5 to 15.0 feet: No recovery. |

Total Depth = 15.0 feet bgs

NOTES:

1. bgs = below ground surface. 2. Depths are relative to feet below ground surface. 3. ID = identification. 4. PID = photoionization detector. 5. PID results shown in parts per million.

Borehole Completion Details

0 to 15.0 feet: 2.25-inch borehole.
0 to 2.0 feet: Concrete.
2.0 to 3.0 feet: Bentonite chips hydrated with potable water.
3.0 to 15.0 feet: 10x20 silica sand filter pack.

Monitoring Well Completion Details

Washington State Department of Ecology Well No. BMP358.
Traffic-grade, flush-mounted, monitoring well vault.
0 to 5.0 feet: 2-inch diameter, schedule 40, polyvinyl chloride, riser pipe.
5.0 to 14.75 feet: 2-inch diameter, schedule 40, polyvinyl chloride, 0.010 machine slot, prepacked well screen.
14.75 to 15.0 feet: 2-inch, schedule 40, polyvinyl chloride pipe end cap.

▽ Water level at approximately 6.8 feet bgs at time of drilling.

MFA BOREHOLE W/ WELL W:\GINT\GINT\PROJECTS\0747.01\12_COMPLIANCE MONITORING\MW01R TO MW12.GPJ 9/18/20

ATTACHMENT B

WELL DEVELOPMENT FORMS



| Project No.: 0747.01.12 | | | | | Date: 9/15/2020 | | | |
|---|-------------------|-----------------|----|----------------------|---------------------------|-----------|------------------|---|
| Location: 116 W Ferry Street, Sedro-Woolley, WA | | | | | Well: MW01R | | | |
| Name: North Cascade Ford Compliance Monitoring | | | | | Initial DTB: 14.77 | | Final DTB: 14.77 | |
| Development Method: Mechanical; surge and purge | | | | | Initial DTW: 9.63 | | Final DTW: 14.77 | |
| Total Water Removed: 8.4 gallons | | | | | Pore Volume: 0.84 gallons | | | |
| Water Contained: 55-gallon drums | | | | | Casing Diameter: 2-inch | | | |
| Time | Cum. Vol. Removed | Turbidity (NTU) | pH | Conductivity (uS/cm) | Temp (°C) | DO (mg/L) | ORP (mV) | Comments |
| 11:50 | 0.0 | -- | -- | -- | -- | -- | -- | Begin purging with submersible pump. |
| 11:55 | 1.0 | -- | -- | -- | -- | -- | -- | Due to poor recharge, purge intermittently. |
| 12:34 | 8.4 | 68.2 | -- | -- | -- | -- | -- | 10 pore volumes removed. Complete well development. |

Notes:

Cum. = cumulative.
DO = dissolved oxygen.
DTB = depth to bottom.
DTW = depth to water.
mg/L = milligrams per liter.
mV = millivolts.
No. = number.
NTU = nephelometric turbidity unit.
ORP = oxygen reduction potential.
uS/cm = microsiemens per centimeter.
Vol. = volume.

| | | | | | | | | |
|---|--|--|--|--|---------------------------|--|------------------|--|
| Project No.: 0747.01.12 | | | | | Date: 9/15/2020 | | | |
| Location: 116 W Ferry Street, Sedro-Woolley, WA | | | | | Well: MW02R | | | |
| Name: North Cascade Ford Compliance Monitoring | | | | | Initial DTB: 14.82 | | Final DTB: 14.82 | |
| Development Method: Mechanical; surge and purge | | | | | Initial DTW: 9.08 | | Final DTW: 9.58 | |
| Total Water Removed: 6.0 gallons | | | | | Pore Volume: 0.94 gallons | | | |
| Water Contained: 55-gallon drums | | | | | Casing Diameter: 2-inch | | | |

| Time | Cum. Vol. Removed | Turbidity (NTU) | pH | Conductivity (uS/cm) | Temp (°C) | DO (mg/L) | ORP (mV) | Comments |
|------|-------------------|-----------------|----|----------------------|-----------|-----------|----------|--|
| 9:32 | 0.0 | -- | -- | -- | -- | -- | -- | Begin purging with submersible pump. |
| 9:35 | 3.0 | -- | -- | -- | -- | -- | -- | Well dry. Pause purge to allow recharge. |
| 9:45 | 3.0 | -- | -- | -- | -- | -- | -- | Resume purging with submersible pump. |
| 9:55 | 6.0 | 12.8 | -- | -- | -- | -- | -- | Complete well development. |

Notes:

Cum. = cumulative.
DO = dissolved oxygen.
DTB = depth to bottom.
DTW = depth to water.
mg/L = milligrams per liter.
mV = millivolts.
No. = number.
NTU = nephelometric turbidity unit.
ORP = oxygen reduction potential.
uS/cm = microsiemens per centimeter.
Vol. = volume.

| | | | | | | | | |
|---|--|--|--|--|---------------------------|--|------------------|--|
| Project No.: 0747.01.12 | | | | | Date: 9/15/2020 | | | |
| Location: 116 W Ferry Street, Sedro-Woolley, WA | | | | | Well: MW04R | | | |
| Name: North Cascade Ford Compliance Monitoring | | | | | Initial DTB: 13.61 | | Final DTB: 13.61 | |
| Development Method: Mechanical; surge and purge | | | | | Initial DTW: 9.91 | | Final DTW: 9.99 | |
| Total Water Removed: 4.0 gallons | | | | | Pore Volume: 0.60 gallons | | | |
| Water Contained: 55-gallon drums | | | | | Casing Diameter: 2-inch | | | |

| Time | Cum. Vol. Removed | Turbidity (NTU) | pH | Conductivity (uS/cm) | Temp (°C) | DO (mg/L) | ORP (mV) | Comments |
|-------|-------------------|-----------------|----|----------------------|-----------|-----------|----------|---|
| 10:00 | 0.0 | -- | -- | -- | -- | -- | -- | Begin purging with submersible pump. |
| 10:02 | 1.0 | -- | -- | -- | -- | -- | -- | Well dry. Pause purge to allow recharge. |
| 10:20 | 1.0 | -- | -- | -- | -- | -- | -- | Resume purging with submersible pump. |
| 10:23 | 3.0 | 16.0 | -- | -- | -- | -- | -- | Well dry. Pause purge to allow recharge. |
| 10:20 | 3.0 | -- | -- | -- | -- | -- | -- | Resume purging with submersible pump. Due to poor recharge, purge intermittently. |
| 10:55 | 4.0 | 13.0 | -- | -- | -- | -- | -- | Complete well development. |

Notes:

Cum. = cumulative.
DO = dissolved oxygen.
DTB = depth to bottom.
DTW = depth to water.
mg/L = milligrams per liter.
mV = millivolts.
No. = number.
NTU = nephelometric turbidity unit.
ORP = oxygen reduction potential.
uS/cm = microsiemens per centimeter.
Vol. = volume.

| Project No.: 0747.01.12 | | | | | Date: 9/15/2020 | | | |
|---|-------------------|-----------------|----|----------------------|---------------------------|-----------|------------------|---|
| Location: 116 W Ferry Street, Sedro-Woolley, WA | | | | | Well: MW06 | | | |
| Name: North Cascade Ford Compliance Monitoring | | | | | Initial DTB: 19.76 | | Final DTB: 19.77 | |
| Development Method: Mechanical; surge and purge | | | | | Initial DTW: 10.28 | | Final DTW: 11.85 | |
| Total Water Removed: 11.0 gallons | | | | | Pore Volume: 1.55 gallons | | | |
| Water Contained: 55-gallon drums | | | | | Casing Diameter: 2-inch | | | |
| Time | Cum. Vol. Removed | Turbidity (NTU) | pH | Conductivity (uS/cm) | Temp (°C) | DO (mg/L) | ORP (mV) | Comments |
| 10:10 | 0.0 | -- | -- | -- | -- | -- | -- | Begin purging with submersible pump. |
| 10:15 | 1.0 | -- | -- | -- | -- | -- | -- | Due to poor recharge, purge intermittently. |
| 10:35 | 11.0 | 8.86 | -- | -- | -- | -- | -- | Complete well development. |
| <p>Notes:</p> <p>Cum. = cumulative.</p> <p>DO = dissolved oxygen.</p> <p>DTB = depth to bottom.</p> <p>DTW = depth to water.</p> <p>mg/L = milligrams per liter.</p> <p>mV = millivolts.</p> <p>No. = number.</p> <p>NTU = nephelometric turbidity unit.</p> <p>ORP = oxygen reduction potential.</p> <p>uS/cm = microsiemens per centimeter.</p> <p>Vol. = volume.</p> | | | | | | | | |

| | | | | | | | | |
|---|--|--|--|--|---------------------------|--|------------------|--|
| Project No.: 0747.01.12 | | | | | Date: 9/15/2020 | | | |
| Location: 116 W Ferry Street, Sedro-Woolley, WA | | | | | Well: MW07 | | | |
| Name: North Cascade Ford Compliance Monitoring | | | | | Initial DTB: 19.70 | | Final DTB: 19.70 | |
| Development Method: Mechanical; surge and purge | | | | | Initial DTW: 8.35 | | Final DTW: 11.33 | |
| Total Water Removed: 13.0 gallons | | | | | Pore Volume: 1.85 gallons | | | |
| Water Contained: 55-gallon drums | | | | | Casing Diameter: 2-inch | | | |

| Time | Cum. Vol. Removed | Turbidity (NTU) | pH | Conductivity (uS/cm) | Temp (°C) | DO (mg/L) | ORP (mV) | Comments |
|-------|-------------------|-----------------|----|----------------------|-----------|-----------|----------|--|
| 12:20 | 0.0 | -- | -- | -- | -- | -- | -- | Begin purging with submersible pump. Due to poor recharge, purge intermittently. |
| 12:37 | 7.0 | 183 | -- | -- | -- | -- | -- | -- |
| 13:10 | 13.0 | 19.1 | -- | -- | -- | -- | -- | Complete well development. |

Notes:

Cum. = cumulative.
DO = dissolved oxygen.
DTB = depth to bottom.
DTW = depth to water.
mg/L = milligrams per liter.
mV = millivolts.
No. = number.
NTU = nephelometric turbidity unit.
ORP = oxygen reduction potential.
uS/cm = microsiemens per centimeter.
Vol. = volume.

| Project No.: 0747.01.12 | | | | | Date: 9/15/2020 | | | |
|---|-------------------|-----------------|----|----------------------|---------------------------|-----------|------------------|--------------------------------------|
| Location: 116 W Ferry Street, Sedro-Woolley, WA | | | | | Well: MW09 | | | |
| Name: North Cascade Ford Compliance Monitoring | | | | | Initial DTB: 19.98 | | Final DTB: 20.00 | |
| Development Method: Mechanical; surge and purge | | | | | Initial DTW: 8.67 | | Final DTW: 8.65 | |
| Total Water Removed: 10.0 gallons | | | | | Pore Volume: 1.84 gallons | | | |
| Water Contained: 55-gallon drums | | | | | Casing Diameter: 2-inch | | | |
| Time | Cum. Vol. Removed | Turbidity (NTU) | pH | Conductivity (uS/cm) | Temp (°C) | DO (mg/L) | ORP (mV) | Comments |
| 11:45 | 0.0 | -- | -- | -- | -- | -- | -- | Begin purging with submersible pump. |
| 11:52 | 10.0 | 14.4 | -- | -- | -- | -- | -- | Complete well development. |
| <p>Notes:</p> <p>Cum. = cumulative.</p> <p>DO = dissolved oxygen.</p> <p>DTB = depth to bottom.</p> <p>DTW = depth to water.</p> <p>mg/L = milligrams per liter.</p> <p>mV = millivolts.</p> <p>No. = number.</p> <p>NTU = nephelometric turbidity unit.</p> <p>ORP = oxygen reduction potential.</p> <p>uS/cm = microsiemens per centimeter.</p> <p>Vol. = volume.</p> | | | | | | | | |

| | | | | | | | | |
|---|--|--|--|--|---------------------------|--|------------------|--|
| Project No.: 0747.01.12 | | | | | Date: 9/15/2020 | | | |
| Location: 116 W Ferry Street, Sedro-Woolley, WA | | | | | Well: MW10 | | | |
| Name: North Cascade Ford Compliance Monitoring | | | | | Initial DTB: 19.86 | | Final DTB: 19.89 | |
| Development Method: Mechanical; surge and purge | | | | | Initial DTW: 9.00 | | Final DTW: 9.54 | |
| Total Water Removed: 18.0 gallons | | | | | Pore Volume: 1.77 gallons | | | |
| Water Contained: 55-gallon drums | | | | | Casing Diameter: 2-inch | | | |

| Time | Cum. Vol. Removed | Turbidity (NTU) | pH | Conductivity (uS/cm) | Temp (°C) | DO (mg/L) | ORP (mV) | Comments |
|------|-------------------|-----------------|----|----------------------|-----------|-----------|----------|---|
| 8:40 | 0.0 | -- | -- | -- | -- | -- | -- | Begin purging with submersible pump. |
| 8:44 | 4.0 | -- | -- | -- | -- | -- | -- | Well dry. Pause purge to allow recharge. |
| 8:47 | 4.0 | -- | -- | -- | -- | -- | -- | Resume purging with submersible pump. |
| 8:48 | 6.0 | -- | -- | -- | -- | -- | -- | Well dry. Pause purge to allow recharge. |
| 9:00 | 6.0 | -- | -- | -- | -- | -- | -- | Resume purging with submersible pump. |
| 9:06 | 9.0 | 189 | -- | -- | -- | -- | -- | Well dry. Pause purge to allow recharge. |
| 9:16 | 9.0 | 130 | -- | -- | -- | -- | -- | Resume purging with submersible pump. |
| 9:28 | 18.0 | 30.8 | -- | -- | -- | -- | -- | 10 pore volumes removed. Complete well development. |

Notes:

Cum. = cumulative.
DO = dissolved oxygen.
DTB = depth to bottom.
DTW = depth to water.
mg/L = milligrams per liter.
mV = millivolts.
No. = number.
NTU = nephelometric turbidity unit.
ORP = oxygen reduction potential.
uS/cm = microsiemens per centimeter.
Vol. = volume.

| Project No.: 0747.01.12 | | | | | Date: 9/15/2020 | | | |
|---|-------------------|-----------------|----|----------------------|---------------------------|-----------|------------------|--------------------------------------|
| Location: 116 W Ferry Street, Sedro-Woolley, WA | | | | | Well: MW11 | | | |
| Name: North Cascade Ford Compliance Monitoring | | | | | Initial DTB: 19.66 | | Final DTB: 19.66 | |
| Development Method: Mechanical; surge and purge | | | | | Initial DTW: 8.92 | | Final DTW: 9.91 | |
| Total Water Removed: 17.0 gallons | | | | | Pore Volume: 1.75 gallons | | | |
| Water Contained: 55-gallon drums | | | | | Casing Diameter: 2-inch | | | |
| Time | Cum. Vol. Removed | Turbidity (NTU) | pH | Conductivity (uS/cm) | Temp (°C) | DO (mg/L) | ORP (mV) | Comments |
| 8:22 | 0.0 | -- | -- | -- | -- | -- | -- | Begin purging with submersible pump. |
| 8:30 | 17.0 | 11.5 | -- | -- | -- | -- | -- | Complete well development. |
| <p>Notes:</p> <p>Cum. = cumulative.</p> <p>DO = dissolved oxygen.</p> <p>DTB = depth to bottom.</p> <p>DTW = depth to water.</p> <p>mg/L = milligrams per liter.</p> <p>mV = millivolts.</p> <p>No. = number.</p> <p>NTU = nephelometric turbidity unit.</p> <p>ORP = oxygen reduction potential.</p> <p>uS/cm = microsiemens per centimeter.</p> <p>Vol. = volume.</p> | | | | | | | | |

| Project No.: 0747.01.12 | | | | | Date: 9/15/2020 | | | |
|---|-------------------|-----------------|----|----------------------|---------------------------|-----------|------------------|---|
| Location: 116 W Ferry Street, Sedro-Woolley, WA | | | | | Well: MW12 | | | |
| Name: North Cascade Ford Compliance Monitoring | | | | | Initial DTB: 14.58 | | Final DTB: 14.58 | |
| Development Method: Mechanical; surge and purge | | | | | Initial DTW: 12.27 | | Final DTW: 13.39 | |
| Total Water Removed: 4.0 gallons | | | | | Pore Volume: 0.38 gallons | | | |
| Water Contained: 55-gallon drums | | | | | Casing Diameter: 2-inch | | | |
| Time | Cum. Vol. Removed | Turbidity (NTU) | pH | Conductivity (uS/cm) | Temp (°C) | DO (mg/L) | ORP (mV) | Comments |
| 10:55 | 0.0 | -- | -- | -- | -- | -- | -- | Begin purging with submersible pump. |
| 10:58 | 1.0 | -- | -- | -- | -- | -- | -- | Due to poor recharge, purge intermittently. |
| 11:20 | 4.0 | 350 | -- | -- | -- | -- | -- | 10 pore volumes removed. Complete well development. |
| <p>Notes:</p> <p>Cum. = cumulative.</p> <p>DO = dissolved oxygen.</p> <p>DTB = depth to bottom.</p> <p>DTW = depth to water.</p> <p>mg/L = milligrams per liter.</p> <p>mV = millivolts.</p> <p>No. = number.</p> <p>NTU = nephelometric turbidity unit.</p> <p>ORP = oxygen reduction potential.</p> <p>uS/cm = microsiemens per centimeter.</p> <p>Vol. = volume.</p> | | | | | | | | |

ATTACHMENT C

WATER FIELD SAMPLING DATA SHEETS



Maul Foster & Alongi, Inc.

109 East 13th Street, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1

Water Field Sampling Data Sheet

| | | | | | | | |
|-----------------------|---------------------|------------------------|-----------------|-----------------|--|------------|--|
| Client Name | VSF Properties, LLC | Sample Location | MW01R | | | | |
| Project # | 0747.01.12 | Sampler | A. Bixby | | | | |
| Project Name | North Cascade Ford | Sampling Date | 9/22/2020 | | | | |
| Sampling Event | September 2020 | Sample Name | MW01R-GW-092220 | | | | |
| Sub Area | | Sample Depth | 12.5 | | | | |
| FSDS QA: | C. Wise 9/25/2020 | Easting | | Northing | | TOC | |

Hydrology/Level Measurements

| Date | Time | DT-Bottom | DT-Product | DT-Water | (Product Thickness) | (Water Column) | (Gallons/ft x Water Column) |
|-----------|------|-----------|------------|----------|---------------------|----------------|-----------------------------|
| | | | | | DTP-DTW | DTB-DTW | Pore Volume |
| 9/22/2020 | 8:16 | 14.76 | | 9.94 | | 4.82 | 0.79 |

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

| Purge Method | Time | Purge Vol (gal) | Flowrate l/min | pH | Temp (C) | E Cond (uS/cm) | DO (mg/L) | ORP | Turbidity |
|------------------------|------------|-----------------|----------------|------|----------|----------------|-----------|------|-----------|
| (2) Peristaltic Pump | 1:20:00 PM | 0.8 | 0.2 | 7.31 | 17.7 | 315.3 | 0.89 | 11.6 | 7.32 |
| | 1:25:00 PM | 1 | 0.2 | 7.31 | 18 | 320.4 | 0.92 | 8.9 | 7.22 |
| | 1:30:00 PM | 1.3 | 0.2 | 7.3 | 18.1 | 323.4 | 0.89 | 8.7 | 7.2 |
| | 1:35:00 PM | 1.5 | 0.2 | 7.3 | 18.3 | 325.7 | 0.85 | 5.5 | 7.28 |
| | | | | | | | | | |
| Final Field Parameters | 1:38:00 PM | 1.7 | 0.2 | 7.29 | 18.4 | 328.7 | 0.84 | 4.2 | 6.7 |

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations: Clear; slight yellow tint; no odor; no sheen

Sample Information

| Sampling Method | Sample Type | Sampling Time | Container Code/Preservative | # | Filtered |
|----------------------|-------------|---------------|-----------------------------|---|----------|
| (2) Peristaltic Pump | Groundwater | 1:40:00 PM | VOA-Glass | 3 | No |
| | | | Amber Glass | 1 | No |
| | | | White Poly | | |
| | | | Yellow Poly | | |
| | | | Green Poly | | |
| | | | Red Total Poly | | |
| | | | Red Dissolved Poly | | |
| | | | Total Bottles | 4 | |

General Sampling Comments

Began purge at 12:50.

Maul Foster & Alongi, Inc.

109 East 13th Street, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1

Water Field Sampling Data Sheet

| | | | | | | | |
|-----------------------|---------------------|------------------------|-----------------|-----------------|--|------------|--|
| Client Name | VSF Properties, LLC | Sample Location | MW02R | | | | |
| Project # | 0747.01.12 | Sampler | A. Bixby | | | | |
| Project Name | North Cascade Ford | Sampling Date | 9/22/2020 | | | | |
| Sampling Event | September 2020 | Sample Name | MW02R-GW-092220 | | | | |
| Sub Area | | Sample Depth | 12.5 | | | | |
| FSDS QA: | C. Wise 9/25/2020 | Easting | | Northing | | TOC | |

Hydrology/Level Measurements

| Date | Time | DT-Bottom | DT-Product | DT-Water | (Product Thickness) | (Water Column) | (Gallons/ft x Water Column) |
|-----------|------|-----------|------------|----------|---------------------|----------------|-----------------------------|
| | | | | | DTP-DTW | DTB-DTW | Pore Volume |
| 9/22/2020 | 7:45 | 14.81 | | 9.28 | | 5.53 | 0.9 |

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

| Purge Method | Time | Purge Vol (gal) | Flowrate l/min | pH | Temp (C) | E Cond (uS/cm) | DO (mg/L) | ORP | Turbidity |
|------------------------|------------|-----------------|----------------|------|----------|----------------|-----------|-------|-----------|
| (2) Peristaltic Pump | 9:05:00 AM | 0.9 | 0.2 | 7.72 | 19.4 | 597 | 0.77 | -21.1 | 5.08 |
| | 9:10:00 AM | 1.1 | 0.2 | 7.73 | 19.4 | 598 | 0.72 | -20.4 | 4.61 |
| | 9:15:00 AM | 1.3 | 0.2 | 7.73 | 19.5 | 597 | 0.7 | -17.1 | 4.4 |
| | | | | | | | | | |
| | | | | | | | | | |
| Final Field Parameters | 9:17:00 AM | 1.4 | 0.2 | 7.73 | 19.6 | 597 | 0.68 | -16.5 | 4.23 |

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations: Clear; colorless; no odor; no sheen

Sample Information

| Sampling Method | Sample Type | Sampling Time | Container Code/Preservative | # | Filtered |
|----------------------|-------------|---------------|-----------------------------|---|----------|
| (2) Peristaltic Pump | Groundwater | 9:20:00 AM | VOA-Glass | 3 | No |
| | | | Amber Glass | 1 | No |
| | | | White Poly | | |
| | | | Yellow Poly | | |
| | | | Green Poly | | |
| | | | Red Total Poly | | |
| | | | Red Dissolved Poly | | |
| | | | Total Bottles | 4 | |

General Sampling Comments

Began purge at 8:30.

Maul Foster & Alongi, Inc.

109 East 13th Street, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1

Water Field Sampling Data Sheet

| | | | | | | | |
|-----------------------|---------------------|------------------------|----------------|-----------------|--|------------|--|
| Client Name | VSF Properties, LLC | Sample Location | MW04 | | | | |
| Project # | 0747.01.12 | Sampler | A. Bixby | | | | |
| Project Name | North Cascade Ford | Sampling Date | 9/22/2020 | | | | |
| Sampling Event | September 2020 | Sample Name | MW04-GW-092220 | | | | |
| Sub Area | | Sample Depth | 11.5 | | | | |
| FSDS QA: | C. Wise 9/25/2020 | Easting | | Northing | | TOC | |

Hydrology/Level Measurements

| Date | Time | DT-Bottom | DT-Product | DT-Water | (Product Thickness) | (Water Column) | (Gallons/ft x Water Column) |
|-----------|------|-----------|------------|----------|---------------------|----------------|-----------------------------|
| | | | | | DTP-DTW | DTB-DTW | Pore Volume |
| 9/22/2020 | 7:50 | 13.6 | | 9.06 | | 4.54 | 0.74 |

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

| Purge Method | Time | Purge Vol (gal) | Flowrate l/min | pH | Temp (C) | E Cond (uS/cm) | DO (mg/L) | ORP | Turbidity |
|------------------------|------------|-----------------|----------------|------|----------|----------------|-----------|-------|-----------|
| (2) Peristaltic Pump | 9:30:00 AM | 1 | 0.2 | 7.54 | 18 | 564 | 3.29 | 79.1 | 2.09 |
| | 9:35:00 AM | 1.2 | 0.2 | 7.54 | 18 | 561 | 3.12 | 89.7 | 1.82 |
| | 9:40:00 AM | 1.4 | 0.2 | 7.54 | 17.9 | 561 | 3.11 | 97.9 | 1.5 |
| | 9:45:00 AM | 1.7 | 0.2 | 7.54 | 18.1 | 560 | 3.13 | 102 | 1.59 |
| | | | | | | | | | |
| Final Field Parameters | 9:47:00 AM | 1.8 | 0.2 | 7.54 | 18.1 | 561 | 3.12 | 102.2 | 1.53 |

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations: Clear; colorless; no odor; no sheen

Sample Information

| Sampling Method | Sample Type | Sampling Time | Container Code/Preservative | # | Filtered |
|----------------------|-------------|---------------|-----------------------------|---|----------|
| (2) Peristaltic Pump | Groundwater | 9:50:00 AM | VOA-Glass | 3 | No |
| | | | Amber Glass | 1 | No |
| | | | White Poly | | |
| | | | Yellow Poly | | |
| | | | Green Poly | | |
| | | | Red Total Poly | | |
| | | | Red Dissolved Poly | | |
| | | | Total Bottles | 4 | |

General Sampling Comments

Began purge at 8:40.

Maul Foster & Alongi, Inc.

109 East 13th Street, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1

Water Field Sampling Data Sheet

| | | | | | | | |
|-----------------------|---------------------|------------------------|----------------|-----------------|--|------------|--|
| Client Name | VSF Properties, LLC | Sample Location | MW06 | | | | |
| Project # | 0747.01.12 | Sampler | A. Bixby | | | | |
| Project Name | North Cascade Ford | Sampling Date | 9/22/2020 | | | | |
| Sampling Event | September 2020 | Sample Name | MW06-GW-092220 | | | | |
| Sub Area | | Sample Depth | 15 | | | | |
| FSDS QA: | C. Wise 9/25/2020 | Easting | | Northing | | TOC | |

Hydrology/Level Measurements

| Date | Time | DT-Bottom | DT-Product | DT-Water | (Product Thickness) | (Water Column) | (Gallons/ft x Water Column) |
|-----------|------|-----------|------------|----------|---------------------|----------------|-----------------------------|
| | | | | | DTP-DTW | DTB-DTW | Pore Volume |
| 9/22/2020 | 7:58 | 19.77 | | 10.84 | | 8.93 | 1.5 |

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

| Purge Method | Time | Purge Vol (gal) | Flowrate l/min | pH | Temp (C) | E Cond (uS/cm) | DO (mg/L) | ORP | Turbidity |
|------------------------|-------------|-----------------|----------------|------|----------|----------------|-----------|-------|-----------|
| (2) Peristaltic Pump | 11:00:00 AM | 2 | 0.2 | 7.28 | 17.4 | 250.7 | 0.4 | -9.3 | 16.58 |
| | 11:05:00 AM | 2.2 | 0.2 | 7.28 | 17.5 | 247.8 | 0.4 | -11.7 | 16.53 |
| | 11:10:00 AM | 2.5 | 0.2 | 7.29 | 17.7 | 242.3 | 0.4 | -13.7 | 16.5 |
| | | | | | | | | | |
| Final Field Parameters | | | | | | | | | |
| | 11:13:00 AM | 2.7 | 0.2 | 7.28 | 17.7 | 241.4 | 0.4 | -14.5 | 16.47 |

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

Clear; orange tint; no odor; no sheen

Sample Information

| Sampling Method | Sample Type | Sampling Time | Container Code/Preservative | # | Filtered |
|----------------------|-------------|---------------|-----------------------------|---|----------|
| (2) Peristaltic Pump | Groundwater | 11:20:00 AM | VOA-Glass | 3 | No |
| | | | Amber Glass | 1 | No |
| | | | White Poly | | |
| | | | Yellow Poly | | |
| | | | Green Poly | | |
| | | | Red Total Poly | | |
| | | | Red Dissolved Poly | | |
| | | | Total Bottles | 4 | |

General Sampling Comments

Began purge at 10:10.

Maul Foster & Alongi, Inc.

109 East 13th Street, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1

Water Field Sampling Data Sheet

| | | | | | | | |
|-----------------------|---------------------|------------------------|----------------|-----------------|--|------------|--|
| Client Name | VSF Properties, LLC | Sample Location | MW07 | | | | |
| Project # | 0747.01.12 | Sampler | A. Bixby | | | | |
| Project Name | North Cascade Ford | Sampling Date | 9/22/2020 | | | | |
| Sampling Event | September 2020 | Sample Name | MW07-GW-092220 | | | | |
| Sub Area | | Sample Depth | 15 | | | | |
| FSDS QA: | C. Wise 9/25/2020 | Easting | | Northing | | TOC | |

Hydrology/Level Measurements

| Date | Time | DT-Bottom | DT-Product | DT-Water | (Product Thickness) DTP-DTW | (Water Column) DTB-DTW | (Gallons/ft x Water Column) Pore Volume |
|-----------|------|-----------|------------|----------|--------------------------------|---------------------------|--|
| 9/22/2020 | 8:12 | 19.58 | | 10.42 | | 9.16 | 1.5 |

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

| Purge Method | Time | Purge Vol (gal) | Flowrate l/min | pH | Temp (C) | E Cond (uS/cm) | DO (mg/L) | ORP | Turbidity |
|------------------------|-------------|-----------------|----------------|------|----------|----------------|-----------|------|-----------|
| (2) Peristaltic Pump | 12:50:00 PM | 1.6 | 0.2 | 7.24 | 18 | 359.1 | 0.27 | 62.7 | 13.71 |
| | 12:55:00 PM | 1.8 | 0.2 | 7.24 | 18.2 | 360.5 | 0.26 | 63 | 13.8 |
| | 1:00:00 PM | 2.1 | 0.2 | 7.24 | 17.9 | 361.5 | 0.26 | 61.9 | 13.75 |
| | | | | | | | | | |
| | | | | | | | | | |
| Final Field Parameters | 1:02:00 PM | 2.3 | 0.2 | 7.24 | 17.9 | 361.1 | 0.26 | 61.6 | 13.71 |

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations: Clear; colorless; no odor; no sheen

Sample Information

| Sampling Method | Sample Type | Sampling Time | Container Code/Preservative | # | Filtered |
|----------------------|-------------|---------------|-----------------------------|---|----------|
| (2) Peristaltic Pump | Groundwater | 1:05:00 PM | VOA-Glass | 3 | No |
| | | | Amber Glass | 1 | No |
| | | | White Poly | | |
| | | | Yellow Poly | | |
| | | | Green Poly | | |
| | | | Red Total Poly | | |
| | | | Red Dissolved Poly | | |
| | | | Total Bottles | 4 | |

General Sampling Comments

Began purge at 12:10.

Maul Foster & Alongi, Inc.

109 East 13th Street, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1

Water Field Sampling Data Sheet

| | | | | | | | |
|-----------------------|---------------------|------------------------|----------------|-----------------|--|------------|--|
| Client Name | VSF Properties, LLC | Sample Location | MW09 | | | | |
| Project # | 0747.01.12 | Sampler | A. Bixby | | | | |
| Project Name | North Cascade Ford | Sampling Date | 9/22/2020 | | | | |
| Sampling Event | September 2020 | Sample Name | MW09-GW-092220 | | | | |
| Sub Area | | Sample Depth | 15 | | | | |
| FSDS QA: | C. Wise 9/25/2020 | Easting | | Northing | | TOC | |

Hydrology/Level Measurements

| Date | Time | DT-Bottom | DT-Product | DT-Water | (Product Thickness) | (Water Column) | (Gallons/ft x Water Column) |
|-----------|------|-----------|------------|----------|---------------------|----------------|-----------------------------|
| | | | | | DTP-DTW | DTB-DTW | Pore Volume |
| 9/22/2020 | 8:07 | 19.98 | | 9.26 | | 10.72 | 1.7 |

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

| Purge Method | Time | Purge Vol (gal) | Flowrate l/min | pH | Temp (C) | E Cond (uS/cm) | DO (mg/L) | ORP | Turbidity |
|------------------------|-------------|-----------------|----------------|------|----------|----------------|-----------|------|-----------|
| (2) Peristaltic Pump | 12:20:00 PM | 1.8 | 0.3 | 7.75 | 19.5 | 505 | 0.93 | 79.1 | 1.72 |
| | 12:25:00 PM | 2.1 | 0.3 | 7.75 | 19.6 | 508 | 0.89 | 79.8 | 1.71 |
| | 12:30:00 PM | 2.4 | 0.3 | 7.74 | 19.7 | 511 | 0.88 | 82.4 | 1.97 |
| | | | | | | | | | |
| | | | | | | | | | |
| Final Field Parameters | 12:32:00 PM | 2.6 | 0.3 | 7.74 | 19.7 | 510 | 0.88 | 83.4 | 1.84 |

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

Clear; colorless; no odor; no sheen

Sample Information

| Sampling Method | Sample Type | Sampling Time | Container Code/Preservative | # | Filtered |
|----------------------|-------------|---------------|-----------------------------|---|----------|
| (2) Peristaltic Pump | Groundwater | 12:35:00 PM | VOA-Glass | 3 | No |
| | | | Amber Glass | 1 | No |
| | | | White Poly | | |
| | | | Yellow Poly | | |
| | | | Green Poly | | |
| | | | Red Total Poly | | |
| | | | Red Dissolved Poly | | |
| | | | Total Bottles | 4 | |

General Sampling Comments

Began purge at 11:40.

Maul Foster & Alongi, Inc.

109 East 13th Street, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1

Water Field Sampling Data Sheet

| | | | | | | | |
|-----------------------|---------------------|------------------------|----------------|-----------------|--|------------|--|
| Client Name | VSF Properties, LLC | Sample Location | MW10 | | | | |
| Project # | 0747.01.12 | Sampler | A. Bixby | | | | |
| Project Name | North Cascade Ford | Sampling Date | 9/22/2020 | | | | |
| Sampling Event | September 2020 | Sample Name | MW10-GW-092220 | | | | |
| Sub Area | | Sample Depth | 15 | | | | |
| FSDS QA: | C. Wise 9/25/2020 | Easting | | Northing | | TOC | |

Hydrology/Level Measurements

| Date | Time | DT-Bottom | DT-Product | DT-Water | (Product Thickness) | (Water Column) | (Gallons/ft x Water Column) |
|-----------|------|-----------|------------|----------|---------------------|----------------|-----------------------------|
| | | | | | DTP-DTW | DTB-DTW | Pore Volume |
| 9/22/2020 | 7:53 | 19.83 | | 9.71 | | 10.12 | 1.6 |

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

| Purge Method | Time | Purge Vol (gal) | Flowrate l/min | pH | Temp (C) | E Cond (uS/cm) | DO (mg/L) | ORP | Turbidity |
|------------------------|-------------|-----------------|----------------|------|----------|----------------|-----------|-------|-----------|
| (2) Peristaltic Pump | 10:10:00 AM | 1.5 | 0.3 | 7.45 | 18.6 | 355.4 | 0.43 | -90.8 | 2.49 |
| | 10:15:00 AM | 1.7 | 0.2 | 7.45 | 18.7 | 355.3 | 0.41 | -92.3 | 2.4 |
| | 10:20:00 AM | 1.9 | 0.2 | 7.44 | 18.8 | 355.1 | 0.41 | -94.5 | 2.31 |
| | | | | | | | | | |
| | | | | | | | | | |
| Final Field Parameters | 10:22:00 AM | 2 | 0.2 | 7.45 | 18.8 | 355.3 | 0.4 | -96.1 | 2.3 |

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

Clear; colorless; slight petroleum hydrocarbon-like odor; no sheen

Sample Information

| Sampling Method | Sample Type | Sampling Time | Container Code/Preservative | # | Filtered |
|----------------------|-------------|---------------|-----------------------------|---|----------|
| (2) Peristaltic Pump | Groundwater | 10:25:00 AM | VOA-Glass | 3 | No |
| | | | Amber Glass | 1 | No |
| | | | White Poly | | |
| | | | Yellow Poly | | |
| | | | Green Poly | | |
| | | | Red Total Poly | | |
| | | | Red Dissolved Poly | | |
| | | | Total Bottles | 4 | |

General Sampling Comments

Began purge at 9:30.

Maul Foster & Alongi, Inc.

109 East 13th Street, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1

Water Field Sampling Data Sheet

| | | | | | | | |
|-----------------------|---------------------|------------------------|----------------|-----------------|--|------------|--|
| Client Name | VSF Properties, LLC | Sample Location | MW11 | | | | |
| Project # | 0747.01.12 | Sampler | A. Bixby | | | | |
| Project Name | North Cascade Ford | Sampling Date | 9/22/2020 | | | | |
| Sampling Event | September 2020 | Sample Name | MW11-GW-092220 | | | | |
| Sub Area | | Sample Depth | 15 | | | | |
| FSDS QA: | C. Wise 9/25/2020 | Easting | | Northing | | TOC | |

Hydrology/Level Measurements

| Date | Time | DT-Bottom | DT-Product | DT-Water | (Product Thickness) | (Water Column) | (Gallons/ft x Water Column) |
|-----------|------|-----------|------------|----------|---------------------|----------------|-----------------------------|
| | | | | | DTP-DTW | DTB-DTW | Pore Volume |
| 9/22/2020 | 8:22 | 19.66 | | 10.48 | | 9.18 | 1.5 |

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

| Purge Method | Time | Purge Vol (gal) | Flowrate l/min | pH | Temp (C) | E Cond (uS/cm) | DO (mg/L) | ORP | Turbidity |
|------------------------|------------|-----------------|----------------|-------|----------|----------------|-----------|-------|-----------|
| (2) Peristaltic Pump | 2:25:00 PM | 1.3 | 0.3 | 9.53 | 18.9 | 246.3 | 3.27 | -38.8 | 26.08 |
| | 3:10:00 PM | 4 | 0.3 | 10.2 | 20.2 | 243.7 | 4.43 | -2.5 | 20.95 |
| | 3:15:00 PM | 4.3 | 0.3 | 10.18 | 20.2 | 246 | 4.52 | 0 | 13.82 |
| | 3:20:00 PM | 4.6 | 0.3 | 10.17 | 20.3 | 246.6 | 4.48 | 1.8 | 10.72 |
| | | | | | | | | | |
| Final Field Parameters | 3:22:00 PM | 4.8 | 0.3 | 10.14 | 20.4 | 246.8 | 4.46 | 5.2 | 9.61 |

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations: Clear; colorless; no odor; no sheen

Sample Information

| Sampling Method | Sample Type | Sampling Time | Container Code/Preservative | # | Filtered |
|----------------------|-------------|---------------|-----------------------------|---|----------|
| (2) Peristaltic Pump | Groundwater | 3:25:00 PM | VOA-Glass | 3 | No |
| | | | Amber Glass | 2 | No |
| | | | White Poly | | |
| | | | Yellow Poly | | |
| | | | Green Poly | | |
| | | | Red Total Poly | | |
| | | | Red Dissolved Poly | | |
| | | | Total Bottles | 5 | |

General Sampling Comments

Began purge at 13:55.

Field duplicate sample MWDUP-GW-092220 collected here.

Maul Foster & Alongi, Inc.

109 East 13th Street, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1

Water Field Sampling Data Sheet

| | | | | | | | |
|-----------------------|---------------------|------------------------|----------------|-----------------|--|------------|--|
| Client Name | VSF Properties, LLC | Sample Location | MW12 | | | | |
| Project # | 0747.01.12 | Sampler | A. Bixby | | | | |
| Project Name | North Cascade Ford | Sampling Date | 9/22/2020 | | | | |
| Sampling Event | September 2020 | Sample Name | MW12-GW-092220 | | | | |
| Sub Area | | Sample Depth | 12.5 | | | | |
| FSDS QA: | C. Wise 9/25/2020 | Easting | | Northing | | TOC | |

Hydrology/Level Measurements

| Date | Time | DT-Bottom | DT-Product | DT-Water | (Product Thickness) | (Water Column) | (Gallons/ft x Water Column) |
|-----------|------|-----------|------------|----------|---------------------|----------------|-----------------------------|
| | | | | | DTP-DTW | DTB-DTW | Pore Volume |
| 9/22/2020 | 8:03 | 14.53 | | 10.24 | | 4.29 | 0.7 |

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

| Purge Method | Time | Purge Vol (gal) | Flowrate l/min | pH | Temp (C) | E Cond (uS/cm) | DO (mg/L) | ORP | Turbidity |
|------------------------|-------------|-----------------|----------------|------|----------|----------------|-----------|-------|-----------|
| (2) Peristaltic Pump | 11:30:00 AM | 0.6 | 0.1 | 7.21 | 18 | 369.9 | 2.04 | 91 | 3.77 |
| | 11:35:00 AM | 0.7 | 0.1 | 7.22 | 18 | 368.8 | 1.42 | 109.5 | 2.83 |
| | 11:40:00 AM | 0.9 | 0.1 | 7.22 | 18.1 | 369 | 1.31 | 113.3 | 2.86 |
| | 11:45:00 AM | 1 | 0.1 | 7.22 | 18.3 | 369 | 1.29 | 118.8 | 2.86 |
| | | | | | | | | | |
| Final Field Parameters | 11:47:00 AM | 1.1 | 0.1 | 7.22 | 18.5 | 369.3 | 1.27 | 121.9 | 2.71 |

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

Clear; colorless; no odor; no sheen

Sample Information

| Sampling Method | Sample Type | Sampling Time | Container Code/Preservative | # | Filtered |
|----------------------|-------------|---------------|-----------------------------|---|----------|
| (2) Peristaltic Pump | Groundwater | 11:50:00 AM | VOA-Glass | 3 | No |
| | | | Amber Glass | 1 | No |
| | | | White Poly | | |
| | | | Yellow Poly | | |
| | | | Green Poly | | |
| | | | Red Total Poly | | |
| | | | Red Dissolved Poly | | |
| | | | Total Bottles | 4 | |

General Sampling Comments

Began purge at 10:45.

Maul Foster & Alongi, Inc.

109 East 13th Street, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1

Water Field Sampling Data Sheet

| | | | | | | | |
|-----------------------|---------------------|------------------------|-----------------|-----------------|--|------------|--|
| Client Name | VSF Properties, LLC | Sample Location | MW01R | | | | |
| Project # | 0747.01.12 | Sampler | A. Bixby | | | | |
| Project Name | North Cascade Ford | Sampling Date | 10/14/2020 | | | | |
| Sampling Event | October 2020 | Sample Name | MW01R-GW-101420 | | | | |
| Sub Area | | Sample Depth | 12.5 | | | | |
| FSDS QA: | C. Wise 10/15/2020 | Easting | | Northing | | TOC | |

Hydrology/Level Measurements

| Date | Time | DT-Bottom | DT-Product | DT-Water | (Product Thickness) | (Water Column) | (Gallons/ft x Water Column) |
|------------|-------|-----------|------------|----------|---------------------|----------------|-----------------------------|
| | | | | | DTP-DTW | DTB-DTW | Pore Volume |
| 10/14/2020 | 10:00 | 14.77 | | 7.82 | | 6.95 | 1.1 |

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

| Purge Method | Time | Purge Vol (gal) | Flowrate l/min | pH | Temp (C) | E Cond (uS/cm) | DO (mg/L) | ORP | Turbidity |
|------------------------|-------------|-----------------|----------------|------|----------|----------------|-----------|------|-----------|
| (2) Peristaltic Pump | 11:25:00 AM | 1.9 | 0.2 | 8.77 | 16.9 | 553.2 | 5.91 | 57.9 | 0.71 |
| | 11:30:00 AM | 2.1 | 0.2 | 8.83 | 16.8 | 554.8 | 5.87 | 57.3 | 0.68 |
| | 11:35:00 AM | 2.3 | 0.2 | 8.83 | 16.9 | 555.1 | 5.86 | 58.6 | 0.69 |
| | | | | | | | | | |
| | | | | | | | | | |
| Final Field Parameters | 11:37:00 AM | 2.4 | 0.2 | 8.84 | 16.9 | 555 | 5.83 | 58.5 | 0.52 |

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

Orange particulates in initial purge water, then clear; slight yellow tint; no odor; slight spotty sheen.

Sample Information

| Sampling Method | Sample Type | Sampling Time | Container Code/Preservative | # | Filtered |
|----------------------|-------------|---------------|-----------------------------|---|----------|
| (2) Peristaltic Pump | Groundwater | 11:40:00 AM | VOA-Glass | 6 | No |
| | | | Amber Glass | 2 | No |
| | | | White Poly | | |
| | | | Yellow Poly | | |
| | | | Green Poly | | |
| | | | Red Total Poly | | |
| | | | Red Dissolved Poly | | |
| | | | Total Bottles | 8 | |

General Sampling Comments

Began purge at 10:05.

Maul Foster & Alongi, Inc.

109 East 13th Street, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1

Water Field Sampling Data Sheet

| | | | | | | | |
|-----------------------|---------------------|------------------------|-----------------|-----------------|--|------------|--|
| Client Name | VSF Properties, LLC | Sample Location | MW02R | | | | |
| Project # | 0747.01.12 | Sampler | A. Bixby | | | | |
| Project Name | North Cascade Ford | Sampling Date | 10/14/2020 | | | | |
| Sampling Event | October 2020 | Sample Name | MW02R-GW-101420 | | | | |
| Sub Area | | Sample Depth | 12.5 | | | | |
| FSDS QA: | C. Wise 10/15/2020 | Easting | | Northing | | TOC | |

Hydrology/Level Measurements

| Date | Time | DT-Bottom | DT-Product | DT-Water | (Product Thickness) | (Water Column) | (Gallons/ft x Water Column) |
|------------|------|-----------|------------|----------|---------------------|----------------|-----------------------------|
| | | | | | DTP-DTW | DTB-DTW | Pore Volume |
| 10/14/2020 | 7:55 | 14.87 | | 9.41 | | 5.46 | 0.89 |

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

| Purge Method | Time | Purge Vol (gal) | Flowrate l/min | pH | Temp (C) | E Cond (uS/cm) | DO (mg/L) | ORP | Turbidity |
|------------------------|------------|-----------------|----------------|------|----------|----------------|-----------|-------|-----------|
| (2) Peristaltic Pump | 9:15:00 AM | 2.3 | 0.2 | 6.84 | 16.9 | 571.3 | 1.18 | 127.4 | 1.11 |
| | 9:20:00 AM | 2.5 | 0.2 | 6.83 | 17.1 | 571.4 | 1.17 | 127.1 | 1.2 |
| | 9:25:00 AM | 2.7 | 0.2 | 6.84 | 16.9 | 569 | 1.15 | 125.4 | 1.14 |
| | | | | | | | | | |
| | | | | | | | | | |
| Final Field Parameters | 9:27:00 AM | 2.8 | 0.2 | 6.84 | 17 | 569.3 | 1.11 | 125.6 | 1.07 |

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations: Clear; slight brownish yellow tint; no odor; no sheen.

Sample Information

| Sampling Method | Sample Type | Sampling Time | Container Code/Preservative | # | Filtered |
|----------------------|-------------|---------------|-----------------------------|---|----------|
| (2) Peristaltic Pump | Groundwater | 9:30:00 AM | VOA-Glass | 6 | No |
| | | | Amber Glass | 2 | No |
| | | | White Poly | | |
| | | | Yellow Poly | | |
| | | | Green Poly | | |
| | | | Red Total Poly | | |
| | | | Red Dissolved Poly | | |
| | | | Total Bottles | 8 | |

General Sampling Comments

Began purge at 8:00.

Maul Foster & Alongi, Inc.

109 East 13th Street, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1

Water Field Sampling Data Sheet

| | | | | | | | |
|-----------------------|---------------------|------------------------|----------------|-----------------|--|------------|--|
| Client Name | VSF Properties, LLC | Sample Location | MW09 | | | | |
| Project # | 0747.01.12 | Sampler | A. Bixby | | | | |
| Project Name | North Cascade Ford | Sampling Date | 10/14/2020 | | | | |
| Sampling Event | October 2020 | Sample Name | MW09-GW-101420 | | | | |
| Sub Area | | Sample Depth | 15 | | | | |
| FSDS QA: | C. Wise 10/15/2020 | Easting | | Northing | | TOC | |

Hydrology/Level Measurements

| Date | Time | DT-Bottom | DT-Product | DT-Water | (Product Thickness) | (Water Column) | (Gallons/ft x Water Column) |
|------------|------|-----------|------------|----------|---------------------|----------------|-----------------------------|
| | | | | | DTP-DTW | DTB-DTW | Pore Volume |
| 10/14/2020 | 9:08 | 20 | | 8.46 | | 11.54 | 1.9 |

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

| Purge Method | Time | Purge Vol (gal) | Flowrate l/min | pH | Temp (C) | E Cond (uS/cm) | DO (mg/L) | ORP | Turbidity |
|------------------------|-------------|-----------------|----------------|------|----------|----------------|-----------|------|-----------|
| (2) Peristaltic Pump | 10:30:00 AM | 2 | 0.2 | 7.21 | 17 | 550.8 | 1.8 | 39.5 | 0.66 |
| | 10:35:00 AM | 2.2 | 0.2 | 7.23 | 16.8 | 552.6 | 1.82 | 43 | 0.7 |
| | 10:40:00 AM | 2.4 | 0.2 | 7.22 | 16.9 | 551.5 | 1.77 | 45.2 | 0.63 |
| | | | | | | | | | |
| | | | | | | | | | |
| Final Field Parameters | 10:42:00 AM | 2.5 | 0.2 | 7.23 | 16.9 | 552.8 | 1.8 | 47 | 0.59 |

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations: Clear; colorless; no odor; no sheen.

Sample Information

| Sampling Method | Sample Type | Sampling Time | Container Code/Preservative | # | Filtered |
|----------------------|-------------|---------------|-----------------------------|---|----------|
| (2) Peristaltic Pump | Groundwater | 10:45:00 AM | VOA-Glass | 6 | No |
| | | | Amber Glass | 2 | No |
| | | | White Poly | | |
| | | | Yellow Poly | | |
| | | | Green Poly | | |
| | | | Red Total Poly | | |
| | | | Red Dissolved Poly | | |
| | | | Total Bottles | 8 | |

General Sampling Comments

Began purge at 9:32.

Maul Foster & Alongi, Inc.

109 East 13th Street, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1

Water Field Sampling Data Sheet

| | | | | | | | |
|-----------------------|---------------------|------------------------|----------------|-----------------|--|------------|--|
| Client Name | VSF Properties, LLC | Sample Location | MW10 | | | | |
| Project # | 0747.01.12 | Sampler | A. Bixby | | | | |
| Project Name | North Cascade Ford | Sampling Date | 10/14/2020 | | | | |
| Sampling Event | October 2020 | Sample Name | MW10-GW-101420 | | | | |
| Sub Area | | Sample Depth | 15 | | | | |
| FSDS QA: | C. Wise 10/15/2020 | Easting | | Northing | | TOC | |

Hydrology/Level Measurements

| Date | Time | DT-Bottom | DT-Product | DT-Water | (Product Thickness) | (Water Column) | (Gallons/ft x Water Column) |
|------------|------|-----------|------------|----------|---------------------|----------------|-----------------------------|
| | | | | | DTP-DTW | DTB-DTW | Pore Volume |
| 10/14/2020 | 7:45 | 19.86 | | 9.21 | | 10.65 | 1.7 |

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

| Purge Method | Time | Purge Vol (gal) | Flowrate l/min | pH | Temp (C) | E Cond (uS/cm) | DO (mg/L) | ORP | Turbidity |
|------------------------|------------|-----------------|----------------|------|----------|----------------|-----------|-------|-----------|
| (2) Peristaltic Pump | 8:40:00 AM | 1.5 | 0.3 | 6.55 | 15.9 | 467.2 | 0.78 | -66 | 2.25 |
| | 8:45:00 AM | 1.7 | 0.3 | 6.58 | 15.5 | 446 | 0.71 | -73.1 | 1.29 |
| | 8:50:00 AM | 2.1 | 0.3 | 6.59 | 15.5 | 447.6 | 0.69 | -76 | 1.18 |
| | | | | | | | | | |
| | | | | | | | | | |
| Final Field Parameters | 8:53:00 AM | 2.2 | 0.3 | 6.59 | 15.5 | 447.6 | 0.69 | -75.9 | 0.79 |

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

Clear; slight brownish yellow tint; slight petroleum hydrocarbon-like odor; no sheen.

Sample Information

| Sampling Method | Sample Type | Sampling Time | Container Code/Preservative | # | Filtered |
|----------------------|-------------|---------------|-----------------------------|---|----------|
| (2) Peristaltic Pump | Groundwater | 9:00:00 AM | VOA-Glass | 6 | No |
| | | | Amber Glass | 2 | No |
| | | | White Poly | | |
| | | | Yellow Poly | | |
| | | | Green Poly | | |
| | | | Red Total Poly | | |
| | | | Red Dissolved Poly | | |
| | | | Total Bottles | 8 | |

General Sampling Comments

Began purge at 7:48.

ATTACHMENT D

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

September 22, 2020

Carolyn Wise, Project Manager
Maul Foster Alongi
2815 2nd Ave, Suite 540
Seattle, WA 98121

Dear Ms Wise:

Included are the results from the testing of material submitted on September 15, 2020 from the North Cascade Ford PO 0747.01.12, F&BI 009250 project. There are 6 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
MFA0922R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 15, 2020 by Friedman & Bruya, Inc. from the Maul Foster Alongi North Cascade Ford PO 0747.01.12, F&BI 009250 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Maul Foster Alongi</u> |
|----------------------|---------------------------|
| 009250 -01 | GP79-S-8.5 |
| 009250 -02 | MW10-S-11.0 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/22/20

Date Received: 09/15/20

Project: North Cascade Ford PO 0747.01.12, F&BI 009250

Date Extracted: 09/18/20

Date Analyzed: 09/18/20

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Gasoline Range</u> | Surrogate (% Recovery) |
|-----------------------------|-----------------------|---------------------------|
| Laboratory ID | | (Limit 50-150) |
| GP79-S-8.5 009250-01 | <5 | 91 |
| Method Blank 00-2006 MB2 | <5 | 91 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/22/20

Date Received: 09/15/20

Project: North Cascade Ford PO 0747.01.12, F&BI 009250

Date Extracted: 09/16/20

Date Analyzed: 09/16/20

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | Surrogate <u>(% Recovery)</u> (Limit 48-168) |
|-----------------------------------|--|---|--|
| MW10-S-11.0 009250-02 | <50 | <250 | 95 |
| Method Blank 00-2085 MB | <50 | <250 | 103 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/22/20

Date Received: 09/15/20

Project: North Cascade Ford PO 0747.01.12, F&BI 009250

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 009273-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|----------|--------------------|------------------------------|---------------------------------|-------------------|
| Gasoline | mg/kg (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | mg/kg (ppm) | 20 | 85 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/22/20

Date Received: 09/15/20

Project: North Cascade Ford PO 0747.01.12, F&BI 009250

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

Laboratory Code: 009250-02 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 100 | 92 | 73-135 | 8 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 88 | 74-139 |

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.

Page # 1 of 1

Default: Dispose after 30 days

| | | | | | | ANALYSES REQUESTED | | | | | | | Notes |
|-------------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|------------|---------------|---------------|---------------|-------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | |
| GP79-S-8.5 | 01 A-E | 9/14/20 | 1030 | S | 5 | | X | | | | | | |
| MW10-S-11.0 | 02 | 9/14/20 | 1055 | S | 1 | X | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

October 1, 2020

Carolyn Wise, Project Manager
Maul Foster Alongi
2815 2nd Ave, Suite 540
Seattle, WA 98121

Dear Ms Wise:

Included are the results from the testing of material submitted on September 23, 2020 from the North Cascade Ford PO 0747.01.12, F&BI 009424 project. There are 11 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
MFA1001R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 23, 2020 by Friedman & Bruya, Inc. from the Maul Foster Alongi North Cascade Ford PO 0747.01.12, F&BI 009424 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Maul Foster Alongi</u> |
|----------------------|---------------------------|
| 009424 -01 | MW02R-GW-092220 |
| 009424 -02 | MW04-GW-092220 |
| 009424 -03 | MW10-GW-092220 |
| 009424 -04 | MW06-GW-092220 |
| 009424 -05 | MW12-GW-092220 |
| 009424 -06 | MW09-GW-092220 |
| 009424 -07 | MW01R-GW-092220 |
| 009424 -08 | MW07-GW-092220 |
| 009424 -09 | MW11-GW-092220 |
| 009424 -10 | MWDup-GW-092220 |
| 009424 -11 | Trip Blank |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/01/20

Date Received: 09/23/20

Project: North Cascade Ford PO 0747.01.12, F&BI 009424

Date Extracted: 09/29/20

Date Analyzed: 09/29/20

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| MW02R-GW-092220 009424-01 | <1 | <1 | <1 | <3 | <100 | 85 |
| MW04-GW-092220 009424-02 | <1 | <1 | <1 | <3 | <100 | 88 |
| MW10-GW-092220 009424-03 | <1 | <1 | <1 | <3 | 370 | 87 |
| MW06-GW-092220 009424-04 | <1 | <1 | <1 | <3 | <100 | 88 |
| MW12-GW-092220 009424-05 | <1 | <1 | <1 | <3 | <100 | 81 |
| MW09-GW-092220 009424-06 | <1 | <1 | <1 | <3 | <100 | 84 |
| MW01R-GW-092220 009424-07 | <1 | <1 | <1 | 3.7 | 160 | 82 |
| MW07-GW-092220 009424-08 | <1 | <1 | <1 | <3 | <100 | 84 |
| MW11-GW-092220 009424-09 | <1 | <1 | 30 | 16 | 390 | 86 |
| MWDup-GW-092220 009424-10 | <1 | <1 | 30 | 17 | 380 | 85 |
| Method Blank 00-2154 MB | <1 | <1 | <1 | <3 | <100 | 84 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/01/20

Date Received: 09/23/20

Project: North Cascade Ford PO 0747.01.12, F&BI 009424

Date Extracted: 09/29/20

Date Analyzed: 09/29/20

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
USING METHOD 8021B**

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>Surrogate (% Recovery)</u> Limit (52-124) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---|
| Trip Blank 009424-11 | <1 | <1 | <1 | <3 | 82 |
| Method Blank 00-2154 MB | <1 | <1 | <1 | <3 | 84 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/01/20
 Date Received: 09/23/20
 Project: North Cascade Ford PO 0747.01.12, F&BI 009424
 Date Extracted: 09/24/20
 Date Analyzed: 09/24/20

**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> <u>(% Recovery)</u> (Limit 47-140) |
|------------------------------------|--|---|---|
| MW02R-GW-092220 009424-01 | 780 x | 450 x | 113 |
| MW04-GW-092220 009424-02 | 260 x | <250 | 120 |
| MW10-GW-092220 009424-03 | 1,900 | <250 | 127 |
| MW06-GW-092220 009424-04 | <50 | <250 | 133 |
| MW12-GW-092220 009424-05 | <50 | <250 | 128 |
| MW09-GW-092220 009424-06 | 640 x | 620 x | 131 |
| MW01R-GW-092220 009424-07 1/1.2 | 1,900 | 610 x | 119 |
| MW07-GW-092220 009424-08 | 130 x | <250 | 125 |
| MW11-GW-092220 009424-09 1/1.2 | 350 x | <300 | 129 |
| MWDup-GW-092220 009424-10 | 200 | <250 | 134 |
| Method Blank 00-2140 MB | <50 | <250 | 108 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|----------------------------------|
| Client Sample ID: | MW11-GW-092220 | Client: | Maul Foster Alongi |
| Date Received: | 09/23/20 | Project: | North Cascade Ford PO 0747.01.12 |
| Date Extracted: | 09/25/20 | Lab ID: | 009424-09 1/2 |
| Date Analyzed: | 09/26/20 | Data File: | 092518.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| 2-Fluorophenol | 46 | 15 | 33 |
| Phenol-d6 | 32 | 10 | 20 |
| Nitrobenzene-d5 | 85 | 17 | 143 |
| 2-Fluorobiphenyl | 83 | 50 | 150 |
| 2,4,6-Tribromophenol | 109 | 50 | 150 |
| Terphenyl-d14 | 105 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 14 |
| 2-Methylnaphthalene | 1.9 |
| 1-Methylnaphthalene | 2.9 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|-----------------|-------------|----------------------------------|
| Client Sample ID: | MWDup-GW-092220 | Client: | Maul Foster Alongi |
| Date Received: | 09/23/20 | Project: | North Cascade Ford PO 0747.01.12 |
| Date Extracted: | 09/25/20 | Lab ID: | 009424-10 1/2 |
| Date Analyzed: | 09/26/20 | Data File: | 092519.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| 2-Fluorophenol | 42 | 15 | 33 |
| Phenol-d6 | 32 | 10 | 20 |
| Nitrobenzene-d5 | 84 | 17 | 143 |
| 2-Fluorobiphenyl | 83 | 50 | 150 |
| 2,4,6-Tribromophenol | 114 | 50 | 150 |
| Terphenyl-d14 | 102 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 16 |
| 2-Methylnaphthalene | 2.3 |
| 1-Methylnaphthalene | 3.4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|----------------------------------|
| Client Sample ID: | Method Blank | Client: | Maul Foster Alongi |
| Date Received: | Not Applicable | Project: | North Cascade Ford PO 0747.01.12 |
| Date Extracted: | 09/25/20 | Lab ID: | 00-2179 mb2 |
| Date Analyzed: | 09/25/20 | Data File: | 092509.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| 2-Fluorophenol | 25 | 15 | 33 |
| Phenol-d6 | 18 | 10 | 20 |
| Nitrobenzene-d5 | 71 | 17 | 143 |
| 2-Fluorobiphenyl | 82 | 50 | 150 |
| 2,4,6-Tribromophenol | 84 | 50 | 150 |
| Terphenyl-d14 | 97 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/01/20

Date Received: 09/23/20

Project: North Cascade Ford PO 0747.01.12, F&BI 009424

**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: 009502-01 (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 | 110 | 65-118 |
| Toluene | ug/L (ppb) | 50 | 94 | 72-122 |
| Ethylbenzene | ug/L (ppb) | 50 | 98 | 73-126 |
| Xylenes | ug/L (ppb) | 150 | 96 | 74-118 |
| Gasoline | ug/L (ppb) | 1,000 | 133 | 69-134 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/01/20

Date Received: 09/23/20

Project: North Cascade Ford PO 0747.01.12, F&BI 009424

**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 | 88 | 61-133 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/01/20

Date Received: 09/23/20

Project: North Cascade Ford PO 0747.01.12, F&BI 009424

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E**

Laboratory Code: Laboratory Control Sample 1/0.5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 2.5 | 76 | 81 | 70-130 | 6 |
| 2-Methylnaphthalene | ug/L (ppb) | 2.5 | 78 | 84 | 70-130 | 7 |
| 1-Methylnaphthalene | ug/L (ppb) | 2.5 | 78 | 84 | 70-130 | 7 |

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.

009424

SAMPLE CHAIN OF CUSTODY ME

09/23/20

805/005

Report To Carolyn Wise

Company Maui Foster & Alongi

Address 1329 N State St, Ste 301

City, State, ZIP Bellingham, WA 98225

Phone (360) 690-5782 Email cwise@maulfoster.com

SAMPLERS (signature)

PROJECT NAME

North Cascade Ford

Carolyn Wise

X0#

0747.0112

REMARKS
Trip Blank (2 jars)
Analyze for BTEX

Project specific RI/FS? Yes / No

maulfoster.com

Page # of 1

TURNAROUND TIME:

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | DRC+ORO NWTPH-Dx | GRO NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | Total naphthalene by EPA 8270 sum | Notes |
|-----------------|--------|--------------|--------------|-------------|-----------|---------------------|-----------------|---------------|------------|---------------|---------------|---------------|--------------------------------------|-------|
| MW028-GW-092220 | AD | 9/22/20 | 0920 | W | 4 | X | X | X | X | | | | | |
| MW048-GW-092220 | 02 | 9/22/20 | 0950 | W | 4 | X | X | X | X | | | | | |
| MW10-GW-092220 | 03 | 9/22/20 | 1025 | W | 4 | X | X | X | X | | | | | |
| MW06-GW-092220 | 04 | 9/22/20 | 1120 | W | 4 | X | X | X | X | | | | | |
| MW12-GW-092220 | 05 | 9/22/20 | 1150 | W | 4 | X | X | X | X | | | | | |
| MW09-GW-092220 | 06 | 9/22/20 | 1235 | W | 4 | X | X | X | X | | | | | |
| MW018-GW-092220 | 07 | 9/22/20 | 1340 | W | 4 | X | X | X | X | | | | | |
| MW07-GW-092220 | 08 | 9/22/20 | 1305 | W | 4 | X | X | X | X | | | | | |
| MW11-GW-092220 | 09 A-E | 9/22/20 | 1525 | W | 5 | X | X | X | X | | | | | |
| MW08-GW-092220 | 10 A-E | 9/22/20 | 1525 | W | 5 | X | X | X | X | | | | | |

Trip Blank

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by:

Received by:

Relinquished by:

Received by:-

Carolyn Wise

Amanda Bixby

MFA

9/22/20 1630

mlh/ans

John Han

FeBI

9/23/20 1445

Added 09/24/20

Samples received at 2:00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

November 4, 2020

Carolyn Wise, Project Manager
Maul Foster Alongi
2815 2nd Ave, Suite 540
Seattle, WA 98121

Dear Ms Wise:

Included are the results from the testing of material submitted on October 15, 2020 from the North Cascade Ford PO 0747.01.12, F&BI 010270 project. There are 6 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
MFA1104R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 15, 2020 by Friedman & Bruya, Inc. from the Maul Foster Alongi North Cascade Ford PO 0747.01.12, F&BI 010270 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Maul Foster Alongi</u> |
|----------------------|---------------------------|
| 010270 -01 | MW10-GW-101420 |
| 010270 -02 | MW02R-GW-101420 |
| 010270 -03 | MW01R-GW-101420 |
| 010270 -04 | MW09-GW-101420 |
| 010270 -05 | Trip Blank-GW-101420 |

Samples MW10-GW-101420 and MW01R-GW-101420 were sent to Fremont Analytical for EPH and VPH analyses. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/20

Date Received: 10/15/20

Project: North Cascade Ford PO 0747.01.12, F&BI 010270

Date Extracted: 10/20/20

Date Analyzed: 10/21/20

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate <u>(% Recovery)</u> (Limit 51-134) |
|-----------------------------------|-----------------------|--|
| MW10-GW-101420 010270-01 | 550 | 89 |
| MW01R-GW-101420 010270-03 | <100 | 92 |
| Method Blank 00-2299 MB | <100 | 94 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/20

Date Received: 10/15/20

Project: North Cascade Ford PO 0747.01.12, F&BI 010270

Date Extracted: 10/19/20

Date Analyzed: 10/19/20

**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> <u>(% Recovery)</u> (Limit 41-152) |
|-----------------------------------|--|---|---|
| MW10-GW-101420 010270-01 | 2,000 x | 400 x | 99 |
| MW01R-GW-101420 010270-03 | 200 x | <260 | 90 |
| Method Blank 00-2345 MB | <50 | <250 | 105 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/20

Date Received: 10/15/20

Project: North Cascade Ford PO 0747.01.12, F&BI 010270

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

Laboratory Code: 010234-01 (Duplicate)

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

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 101 | 69-134 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/20

Date Received: 10/15/20

Project: North Cascade Ford PO 0747.01.12, F&BI 010270

**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 | 108 | 63-142 | 4 |

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.



Fremont
Analytical

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: 010270
Work Order Number: 2010269

November 02, 2020

Attention Michael Erdahl:

Fremont Analytical, Inc. received 4 sample(s) on 10/16/2020 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH
Volatile Petroleum Hydrocarbons by NWVPH

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 Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 010270
Work Order: 2010269

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|----------------------|-------------------------|----------------------------|---------------------------|
| 2010269-001 | MW10-GW-101420 | 10/14/2020 9:00 AM | 10/16/2020 11:06 AM |
| 2010269-002 | MW02R-GW-101420 | 10/14/2020 9:30 AM | 10/16/2020 11:06 AM |
| 2010269-003 | MW01R-GW-101420 | 10/14/2020 11:40 AM | 10/16/2020 11:06 AM |
| 2010269-004 | MW09-GW-101420 | 10/14/2020 10:45 AM | 10/16/2020 11:06 AM |

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

CLIENT: Friedman & Bruya
Project: 010270

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
- DUP - Sample Duplicate
- 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
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2010269

Date Reported: 11/2/2020

Client: Friedman & Bruya

Collection Date: 10/14/2020 9:00:00 AM

Project: 010270

Lab ID: 2010269-001

Matrix: Water

Client Sample ID: MW10-GW-101420

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

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 30111

Analyst: DW

| | | | | | | |
|---------------------------------|------|----------|---|------|---|-----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 84.3 | * | µg/L | 1 | 10/30/2020 8:56:20 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 42.1 | * | µg/L | 1 | 10/30/2020 8:56:20 PM |
| Aliphatic Hydrocarbon (C12-C16) | ND | 42.1 | | µg/L | 1 | 10/30/2020 8:56:20 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 42.1 | | µg/L | 1 | 10/30/2020 8:56:20 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 42.1 | | µg/L | 1 | 10/30/2020 8:56:20 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 84.3 | * | µg/L | 1 | 10/31/2020 2:32:14 AM |
| Aromatic Hydrocarbon (C10-C12) | 84.4 | 42.1 | * | µg/L | 1 | 10/31/2020 2:32:14 AM |
| Aromatic Hydrocarbon (C12-C16) | 105 | 42.1 | * | µg/L | 1 | 10/31/2020 2:32:14 AM |
| Aromatic Hydrocarbon (C16-C21) | 75.4 | 42.1 | | µg/L | 1 | 10/31/2020 2:32:14 AM |
| Aromatic Hydrocarbon (C21-C34) | ND | 42.1 | | µg/L | 1 | 10/31/2020 2:32:14 AM |
| Surr: 1-Chlorooctadecane | 53.1 | 60 - 140 | S | %Rec | 1 | 10/30/2020 8:56:20 PM |
| Surr: o-Terphenyl | 41.8 | 60 - 140 | S | %Rec | 1 | 10/31/2020 2:32:14 AM |

NOTES:

S - Outlying surrogate recovery(ies) observed. Sample will be re-analyzed.

* - Flagged value is not within established control limits.

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 30180

Analyst: CR

| | | | | | | |
|---------------------------------|------|----------|--|------|---|------------------------|
| Aliphatic Hydrocarbon (C5-C6) | ND | 40.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| Aliphatic Hydrocarbon (C6-C8) | ND | 20.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| Aliphatic Hydrocarbon (C8-C10) | ND | 20.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| Aliphatic Hydrocarbon (C10-C12) | 128 | 20.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| Aromatic Hydrocarbon (C8-C10) | ND | 50.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| Aromatic Hydrocarbon (C10-C12) | 742 | 20.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| Aromatic Hydrocarbon (C12-C13) | 450 | 20.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| Benzene | ND | 20.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| Toluene | ND | 20.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| Ethylbenzene | ND | 20.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| m,p-Xylene | ND | 40.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| o-Xylene | ND | 20.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| Naphthalene | 65.1 | 20.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| Methyl tert-butyl ether (MTBE) | ND | 20.0 | | µg/L | 1 | 10/28/2020 12:31:22 AM |
| Surr: 1,4-Difluorobenzene | 94.7 | 65 - 140 | | %Rec | 1 | 10/28/2020 12:31:22 AM |
| Surr: Bromofluorobenzene | 95.2 | 65 - 140 | | %Rec | 1 | 10/28/2020 12:31:22 AM |



Analytical Report

Work Order: 2010269

Date Reported: 11/2/2020

Client: Friedman & Bruya

Collection Date: 10/14/2020 11:40:00 AM

Project: 010270

Lab ID: 2010269-003

Matrix: Water

Client Sample ID: MW01R-GW-101420

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

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 30111

Analyst: DW

| | | | | | | |
|---------------------------------|------|----------|---|------|---|-----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 89.7 | * | µg/L | 1 | 10/30/2020 9:30:07 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 44.9 | * | µg/L | 1 | 10/30/2020 9:30:07 PM |
| Aliphatic Hydrocarbon (C12-C16) | ND | 44.9 | | µg/L | 1 | 10/30/2020 9:30:07 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 44.9 | | µg/L | 1 | 10/30/2020 9:30:07 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 44.9 | | µg/L | 1 | 10/30/2020 9:30:07 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 89.7 | * | µg/L | 1 | 10/31/2020 3:06:00 AM |
| Aromatic Hydrocarbon (C10-C12) | ND | 44.9 | * | µg/L | 1 | 10/31/2020 3:06:00 AM |
| Aromatic Hydrocarbon (C12-C16) | ND | 44.9 | * | µg/L | 1 | 10/31/2020 3:06:00 AM |
| Aromatic Hydrocarbon (C16-C21) | ND | 44.9 | | µg/L | 1 | 10/31/2020 3:06:00 AM |
| Aromatic Hydrocarbon (C21-C34) | ND | 44.9 | | µg/L | 1 | 10/31/2020 3:06:00 AM |
| Surr: 1-Chlorooctadecane | 52.2 | 60 - 140 | S | %Rec | 1 | 10/30/2020 9:30:07 PM |
| Surr: o-Terphenyl | 46.6 | 60 - 140 | S | %Rec | 1 | 10/31/2020 3:06:00 AM |

NOTES:

S - Outlying surrogate recovery(ies) observed. Sample will be re-analyzed.

* - Flagged value is not within established control limits.

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 30180

Analyst: CR

| | | | | | | |
|---------------------------------|------|----------|--|------|---|-----------------------|
| Aliphatic Hydrocarbon (C5-C6) | ND | 40.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| Aliphatic Hydrocarbon (C6-C8) | ND | 20.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| Aliphatic Hydrocarbon (C8-C10) | ND | 20.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 20.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| Aromatic Hydrocarbon (C8-C10) | ND | 50.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| Aromatic Hydrocarbon (C10-C12) | 77.3 | 20.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| Aromatic Hydrocarbon (C12-C13) | 304 | 20.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| Benzene | ND | 20.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| Toluene | ND | 20.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| Ethylbenzene | ND | 20.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| m,p-Xylene | ND | 40.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| o-Xylene | ND | 20.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| Naphthalene | ND | 20.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| Methyl tert-butyl ether (MTBE) | ND | 20.0 | | µg/L | 1 | 10/28/2020 1:08:16 AM |
| Surr: 1,4-Difluorobenzene | 99.4 | 65 - 140 | | %Rec | 1 | 10/28/2020 1:08:16 AM |
| Surr: Bromofluorobenzene | 97.9 | 65 - 140 | | %Rec | 1 | 10/28/2020 1:08:16 AM |

Work Order: 2010269
CLIENT: Friedman & Bruya
Project: 010270

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID: MB-30111 | SampType: MBLK | Units: µg/L | | | | Prep Date: 10/21/2020 | | | RunNo: 63049 | | |
|---------------------------------|------------------------|--------------------|-----------|-------------|------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: MBLKW | Batch ID: 30111 | | | | | Analysis Date: 10/30/2020 | | | SeqNo: 1265485 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | ND | 80.0 | | 0 | 0 | | | | | | * |
| Aliphatic Hydrocarbon (C10-C12) | ND | 40.0 | | 0 | 0 | | | | | | * |
| Aliphatic Hydrocarbon (C12-C16) | ND | 40.0 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C16-C21) | ND | 40.0 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C21-C34) | ND | 40.0 | | 0 | 0 | | | | | | |
| Surr: 1-Chlorooctadecane | 163 | | 399.8 | | 40.9 | 60 | 140 | | | | S |

NOTES:

S - Outlying surrogate recovery(ies) observed.

* - Flagged value is not within established control limits.

| | | | | | | | | | | | |
|---------------------------------|------------------------|----------------------------------|-----------|-------------|------|------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-30111 | SampType: LCS | Units: µg/L | | | | Prep Date: 10/21/2020 | | | RunNo: 63049 | | |
| Client ID: LCSW | Batch ID: 30111 | Analysis Date: 10/30/2020 | | | | | | | SeqNo: 1265490 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 240 | 79.8 | 996.9 | 0 | 24.0 | 70 | 130 | | | | S |
| Aliphatic Hydrocarbon (C10-C12) | 176 | 39.9 | 498.5 | 0 | 35.3 | 70 | 130 | | | | S |
| Aliphatic Hydrocarbon (C12-C16) | 310 | 39.9 | 498.5 | 0 | 62.1 | 70 | 130 | | | | S |
| Aliphatic Hydrocarbon (C16-C21) | 365 | 39.9 | 498.5 | 0 | 73.2 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 311 | 39.9 | 498.5 | 0 | 62.4 | 70 | 130 | | | | S |
| Surr: 1-Chlorooctadecane | 269 | | 398.8 | | 67.5 | 60 | 140 | | | | |

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range (C12-C16 and C21-C34)

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.

| Sample ID: LCSD-30111 | SampType: LCSD | Units: µg/L | | | | Prep Date: 10/21/2020 | | | RunNo: 63049 | | |
|---------------------------------|------------------------|--------------------|-----------|-------------|------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: LCSW02 | Batch ID: 30111 | | | | | Analysis Date: 10/30/2020 | | | SeqNo: 1265491 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 215 | 79.0 | 987.7 | 0 | 21.8 | 70 | 130 | 239.6 | 10.7 | 20 | S |
| Aliphatic Hydrocarbon (C10-C12) | 219 | 39.5 | 493.8 | 0 | 44.3 | 70 | 130 | 175.9 | 21.7 | 20 | RS |
| Aliphatic Hydrocarbon (C12-C16) | 405 | 39.5 | 493.8 | 0 | 82.0 | 70 | 130 | 309.7 | 26.7 | 20 | R |

Work Order: 2010269
CLIENT: Friedman & Bruya
Project: 010270

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | | |
|------------------------------|--------|------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCSD-30111 | | SampType: LCSD | | | Units: µg/L | | Prep Date: 10/21/2020 | | | RunNo: 63049 | | |
| Client ID: LCSW02 | | Batch ID: 30111 | | | Analysis Date: 10/30/2020 | | | SeqNo: 1265491 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------------------------------|-----|------|-------|---|------|----|-----|-------|------|----|--|
| Aliphatic Hydrocarbon (C16-C21) | 438 | 39.5 | 493.8 | 0 | 88.7 | 70 | 130 | 364.6 | 18.3 | 20 | |
| Aliphatic Hydrocarbon (C21-C34) | 359 | 39.5 | 493.8 | 0 | 72.8 | 70 | 130 | 311.1 | 14.4 | 20 | |
| Surr: 1-Chlorooctadecane | 320 | | 395.1 | | 80.9 | 60 | 140 | | 0 | | |

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.
 R - High RPD observed.

| | | | | | | | | | | | |
|----------------------------|------------------------|----------------------------------|-----------|-------------|------------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-30111 | SampType: MBLK | Units: µg/L | | | Prep Date: 10/21/2020 | | | | RunNo: 63049 | | |
| Client ID: MBLKW | Batch ID: 30111 | Analysis Date: 10/30/2020 | | | | | | | SeqNo: 1265501 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------------------|-----|------|-------|---|------|----|-----|--|--|--|---|
| Aromatic Hydrocarbon (C8-C10) | ND | 80.0 | | 0 | 0 | | | | | | * |
| Aromatic Hydrocarbon (C10-C12) | ND | 40.0 | | 0 | 0 | | | | | | * |
| Aromatic Hydrocarbon (C12-C16) | ND | 40.0 | | 0 | 0 | | | | | | * |
| Aromatic Hydrocarbon (C16-C21) | ND | 40.0 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C21-C34) | ND | 40.0 | | 0 | 0 | | | | | | |
| Surr: o-Terphenyl | 163 | | 399.8 | | 40.7 | 60 | 140 | | | | S |

NOTES:

S - Outlying surrogate recovery(ies) observed.
 * - Flagged value is not within established control limits.

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-30111 | | SampType: LCS | | | Units: µg/L | | Prep Date: 10/21/2020 | | | RunNo: 63049 | | |
| Client ID: LCSW | | Batch ID: 30111 | | | Analysis Date: 10/31/2020 | | | | | SeqNo: 1265507 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|--------------------------------|-----|------|-------|---|------|----|-----|--|--|--|---|
| Aromatic Hydrocarbon (C8-C10) | 244 | 79.8 | 996.9 | 0 | 24.5 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C10-C12) | 197 | 39.9 | 498.5 | 0 | 39.4 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C12-C16) | 171 | 39.9 | 498.5 | 0 | 34.3 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C16-C21) | 303 | 39.9 | 498.5 | 0 | 60.7 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C21-C34) | 278 | 39.9 | 498.5 | 0 | 55.7 | 70 | 130 | | | | S |
| Surr: o-Terphenyl | 197 | | 398.8 | | 49.4 | 60 | 140 | | | | S |

Work Order: 2010269
CLIENT: Friedman & Bruya
Project: 010270

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------|----------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-30111 | SampType: LCS | Units: µg/L | Prep Date: 10/21/2020 | RunNo: 63049 | | | | | | | |
| Client ID: LCSW | Batch ID: 30111 | | Analysis Date: 10/31/2020 | SeqNo: 1265507 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range (C16-C21 and C21-C34)
 S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.
 S - Outlying surrogate recovery(ies) observed.

| | | | | | | | | | | | |
|--------------------------------|------------------------|----------------------------------|-----------|-------------|------|------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCSD-30111 | SampType: LCSD | Units: µg/L | | | | Prep Date: 10/21/2020 | | | RunNo: 63049 | | |
| Client ID: LCSW02 | Batch ID: 30111 | Analysis Date: 10/31/2020 | | | | | | | SeqNo: 1265509 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 168 | 79.0 | 987.7 | 0 | 17.0 | 70 | 130 | 244.2 | 36.9 | 20 | S |
| Aromatic Hydrocarbon (C10-C12) | 204 | 39.5 | 493.8 | 0 | 41.4 | 70 | 130 | 196.6 | 3.87 | 20 | S |
| Aromatic Hydrocarbon (C12-C16) | 237 | 39.5 | 493.8 | 0 | 48.1 | 70 | 130 | 170.9 | 32.6 | 20 | RS |
| Aromatic Hydrocarbon (C16-C21) | 358 | 39.5 | 493.8 | 0 | 72.6 | 70 | 130 | 302.7 | 16.9 | 20 | |
| Aromatic Hydrocarbon (C21-C34) | 358 | 39.5 | 493.8 | 0 | 72.5 | 70 | 130 | 277.5 | 25.4 | 20 | R |
| Surr: o-Terphenyl | 244 | | 395.1 | | 61.8 | 60 | 140 | | 0 | | |

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.

Work Order: 2010269
CLIENT: Friedman & Bruya
Project: 010270

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| | | | | | | | | | | | |
|---------------------------------|--------|------------------------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-30180 | | SampType: LCS | | Units: µg/L | | Prep Date: 10/27/2020 | | | RunNo: 62964 | | |
| Client ID: LCSW | | Batch ID: 30180 | | | | | Analysis Date: 10/27/2020 | | | SeqNo: 1263838 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 663 | 40.0 | 600.0 | 0 | 110 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 199 | 20.0 | 200.0 | 0 | 99.5 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 194 | 20.0 | 200.0 | 0 | 96.8 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 191 | 20.0 | 200.0 | 0 | 95.5 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C8-C10) | 905 | 50.0 | 800.0 | 0 | 113 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 222 | 20.0 | 200.0 | 0 | 111 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C12-C13) | 222 | 20.0 | 200.0 | 0 | 111 | 70 | 130 | | | | |
| Benzene | 216 | 20.0 | 200.0 | 0 | 108 | 70 | 130 | | | | |
| Toluene | 221 | 20.0 | 200.0 | 0 | 110 | 70 | 130 | | | | |
| Ethylbenzene | 220 | 20.0 | 200.0 | 0 | 110 | 70 | 130 | | | | |
| m,p-Xylene | 458 | 40.0 | 400.0 | 0 | 114 | 70 | 130 | | | | |
| o-Xylene | 220 | 20.0 | 200.0 | 0 | 110 | 70 | 130 | | | | |
| Naphthalene | 226 | 20.0 | 200.0 | 0 | 113 | 70 | 130 | | | | |
| Methyl tert-butyl ether (MTBE) | 218 | 20.0 | 200.0 | 0 | 109 | 70 | 130 | | | | |
| Surr: 1,4-Difluorobenzene | 53.9 | | 50.00 | | 108 | 65 | 140 | | | | |
| Surr: Bromofluorobenzene | 50.4 | | 50.00 | | 101 | 65 | 140 | | | | |

| | | | | | | | | | | | | |
|---------------------------------|--------|-----------------|-----------|---------------------------|------|-----------------------|-----------|-------------|--------------|----------|----------------|--|
| Sample ID: 2010228-015CDUP | | SampType: DUP | | Units: µg/L | | Prep Date: 10/27/2020 | | | RunNo: 62964 | | | |
| Client ID: BATCH | | Batch ID: 30180 | | Analysis Date: 10/27/2020 | | | | | | | SeqNo: 1263831 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Aliphatic Hydrocarbon (C5-C6) | ND | 40.0 | | 0 | 0 | | | 0 | | 25 | | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 20.0 | | 0 | 0 | | | 0 | | 25 | | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 20.0 | | 0 | 0 | | | 0 | | 25 | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 20.0 | | 0 | 0 | | | 0 | | 25 | | |
| Aromatic Hydrocarbon (C8-C10) | ND | 50.0 | | 0 | 0 | | | 0 | | 25 | | |
| Aromatic Hydrocarbon (C10-C12) | 44.9 | 20.0 | | 0 | 0 | | | 44.05 | 2.00 | 25 | | |
| Aromatic Hydrocarbon (C12-C13) | 39.0 | 20.0 | | 0 | 0 | | | 74.00 | 62.0 | 25 | R | |
| Benzene | ND | 20.0 | | 0 | 0 | | | 0 | | 25 | | |
| Toluene | ND | 20.0 | | 0 | 0 | | | 0 | | 25 | | |

Work Order: 2010269
CLIENT: Friedman & Bruya
Project: 010270

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|----------------------------------|------|------------------------------|-----------|-------------|---------------------|-----------------------|------|
| Sample ID: 2010228-015CDUP | | SampType: DUP | | Units: µg/L | | Prep Date: 10/27/2020 | | | RunNo: 62964 | | |
| Client ID: BATCH | | Batch ID: 30180 | | Analysis Date: 10/27/2020 | | | | | | SeqNo: 1263831 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Ethylbenzene | ND | 20.0 | | 0 | 0 | | | 0 | | 25 | |
| m,p-Xylene | ND | 40.0 | | 0 | 0 | | | 0 | | 25 | |
| o-Xylene | ND | 20.0 | | 0 | 0 | | | 0 | | 25 | |
| Naphthalene | ND | 20.0 | | 0 | 0 | | | 0 | | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 20.0 | | 0 | 0 | | | 0 | | 25 | |
| Surr: 1,4-Difluorobenzene | 47.8 | | 50.00 | | 95.6 | 65 | 140 | | 0 | | |
| Surr: Bromofluorobenzene | 48.9 | | 50.00 | | 97.9 | 65 | 140 | | 0 | | |

NOTES:

R - High RPD observed. The method is in control as indicated by the LCS.

| Sample ID: MB-30180 | SampType: MBLK | Units: µg/L | | | | Prep Date: 10/27/2020 | | | RunNo: 62964 | | |
|---------------------------------|------------------------|----------------------------------|-----------|-------------|------|------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: MBLKW | Batch ID: 30180 | Analysis Date: 10/28/2020 | | | | | | | SeqNo: 1263836 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 40.0 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 20.0 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 20.0 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 20.0 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | ND | 50.0 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 20.0 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 20.0 | | 0 | 0 | | | | | | |
| Benzene | ND | 20.0 | | 0 | 0 | | | | | | |
| Toluene | ND | 20.0 | | 0 | 0 | | | | | | |
| Ethylbenzene | ND | 20.0 | | 0 | 0 | | | | | | |
| m,p-Xylene | ND | 40.0 | | 0 | 0 | | | | | | |
| o-Xylene | ND | 20.0 | | 0 | 0 | | | | | | |
| Naphthalene | ND | 20.0 | | 0 | 0 | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 20.0 | | 0 | 0 | | | | | | |
| Surr: 1,4-Difluorobenzene | 57.0 | | 50.00 | | 114 | 65 | 140 | | | | |
| Surr: Bromofluorobenzene | 57.7 | | 50.00 | | 115 | 65 | 140 | | | | |

2010209

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

| | |
|---|---------------|
| SUBCONTRACTOR Fremont | |
| PROJECT NAME/NO. 010270 | PO # A-434 |
| REMARKS Please Email Results EQUIS 4 | |

Page # _____ of _____

TURNAROUND TIME

☒ Standard TAT _____

☐ RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

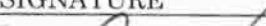

☐ Dispose after 30 days

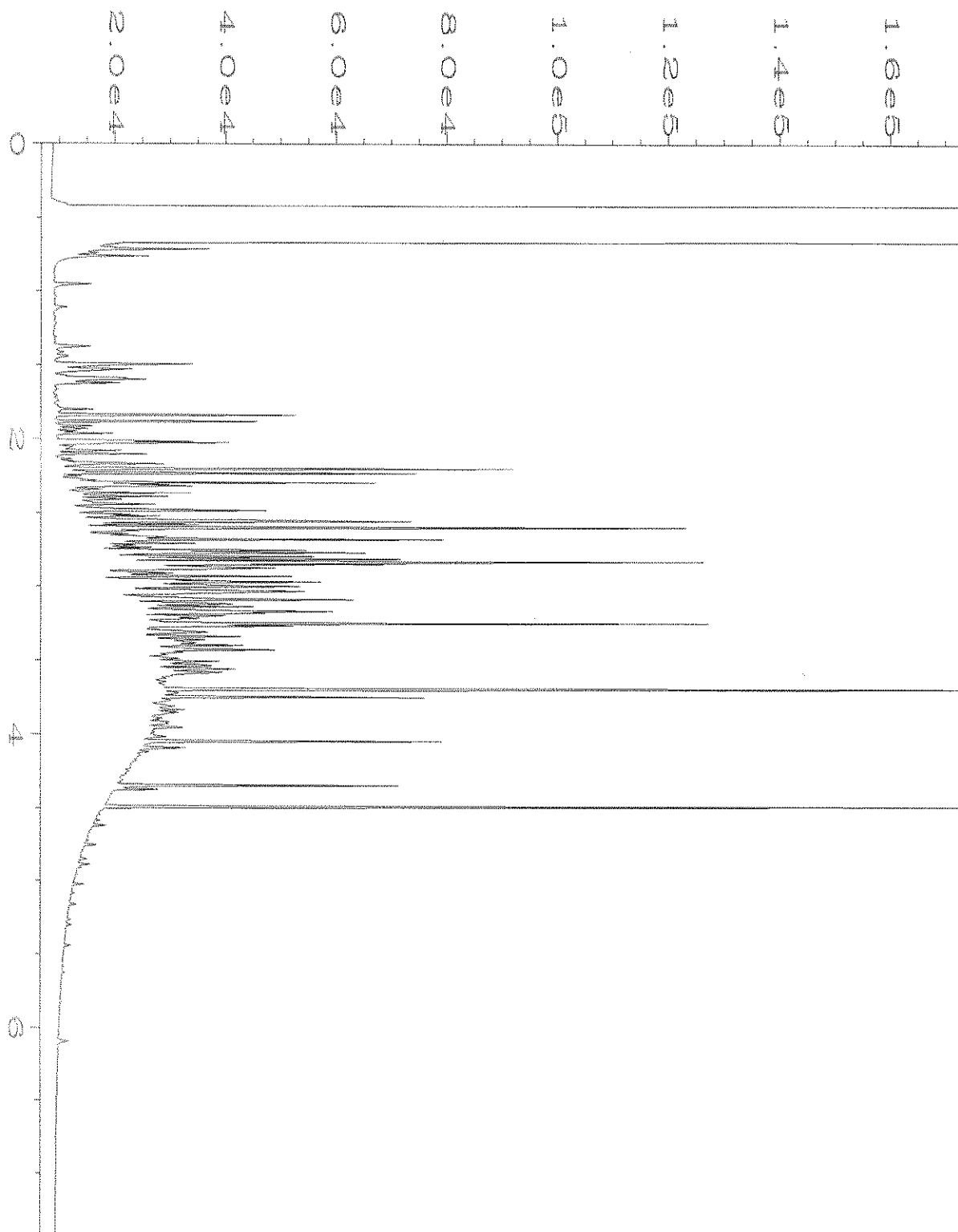
☐ Return samples

☐ Will call with instructions

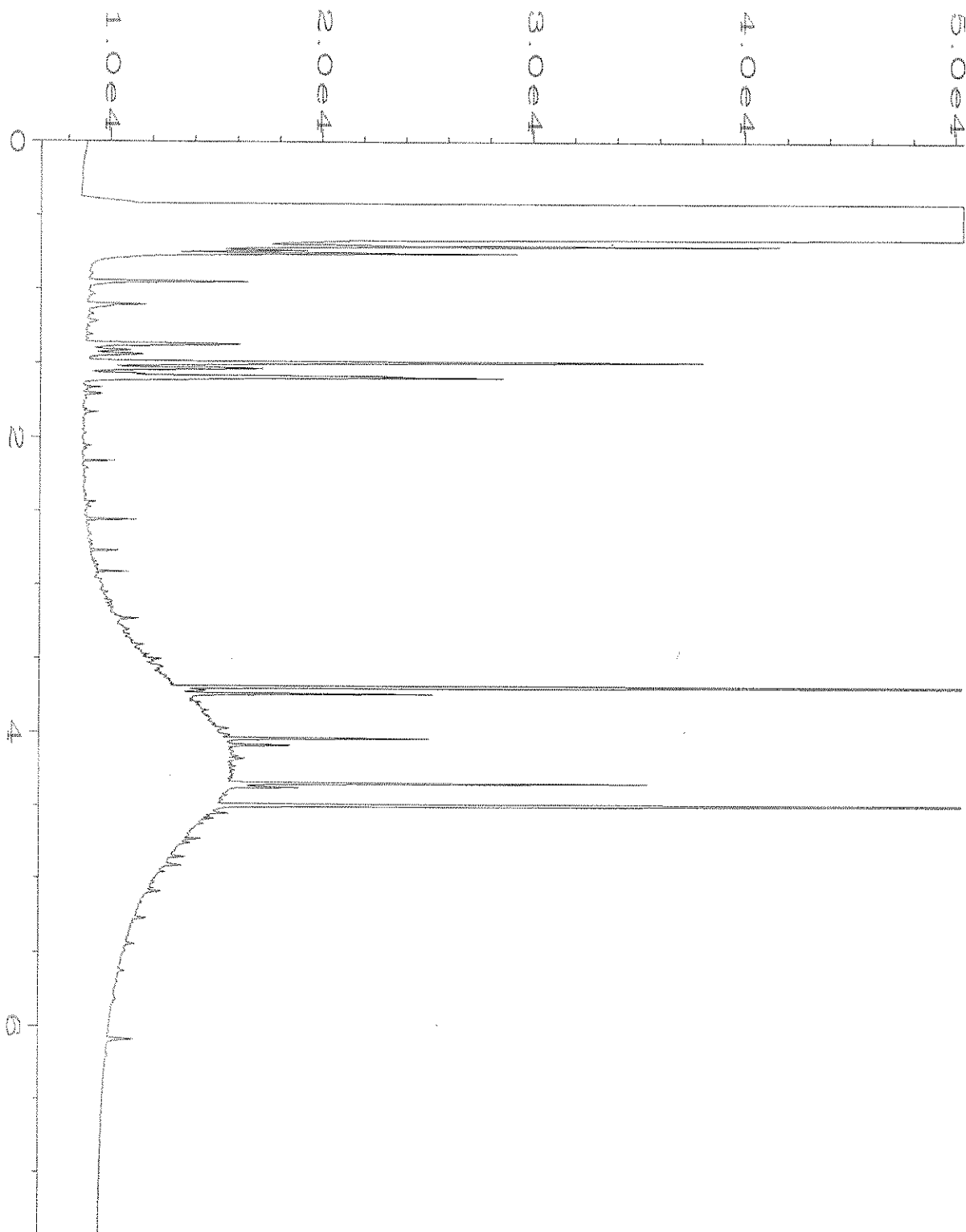
[illegible]

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

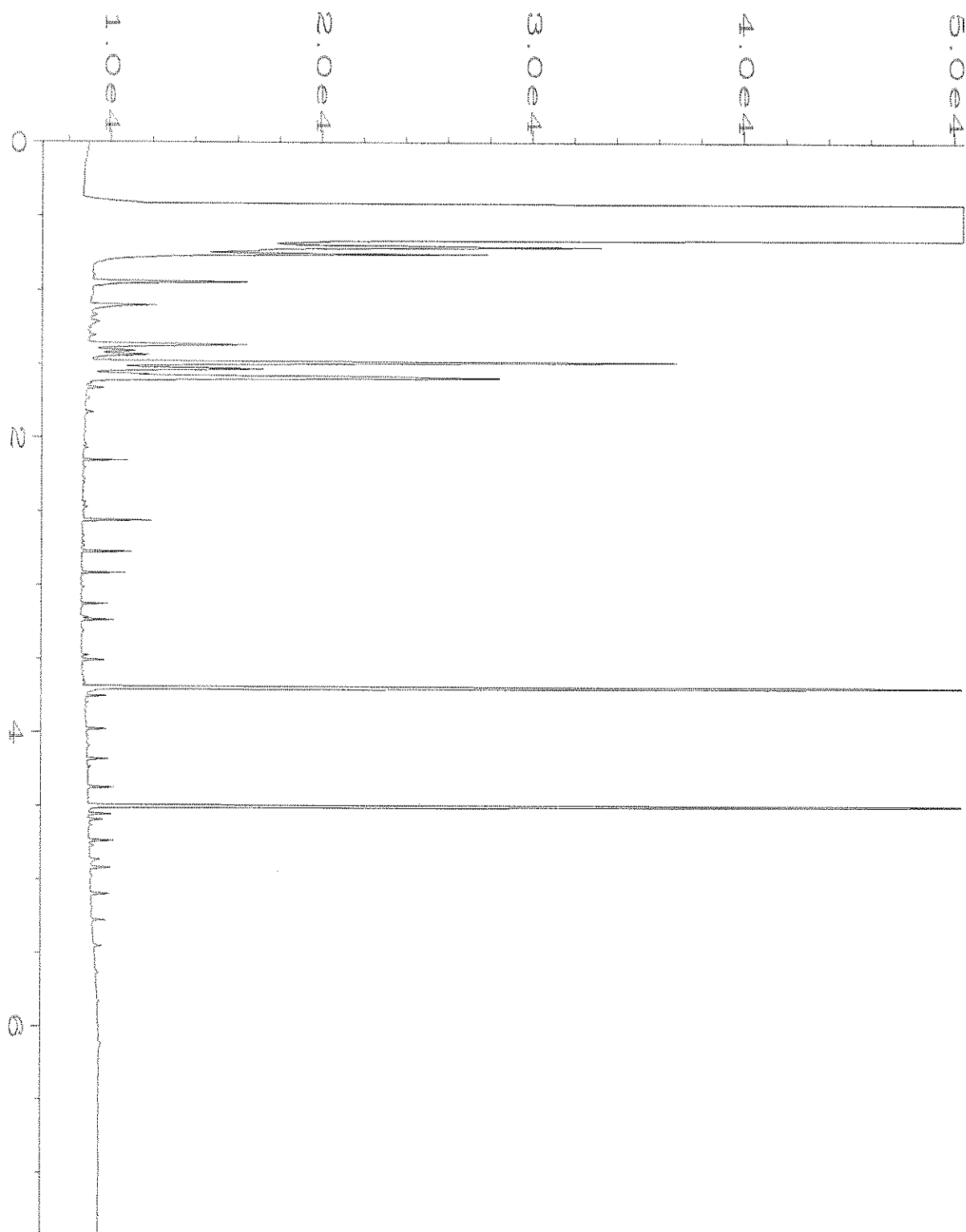
| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--|----------------|------------------|----------|--------|
| Relinquished by:  | Michael Erdahl | Friedman & Bruya | 10/16/20 | 0838AM |
| Received by:  | Carter Johnson | FAT | 10/16/20 | 1106 |
| Relinquished by: | | | | |
| Received by: | | | | |



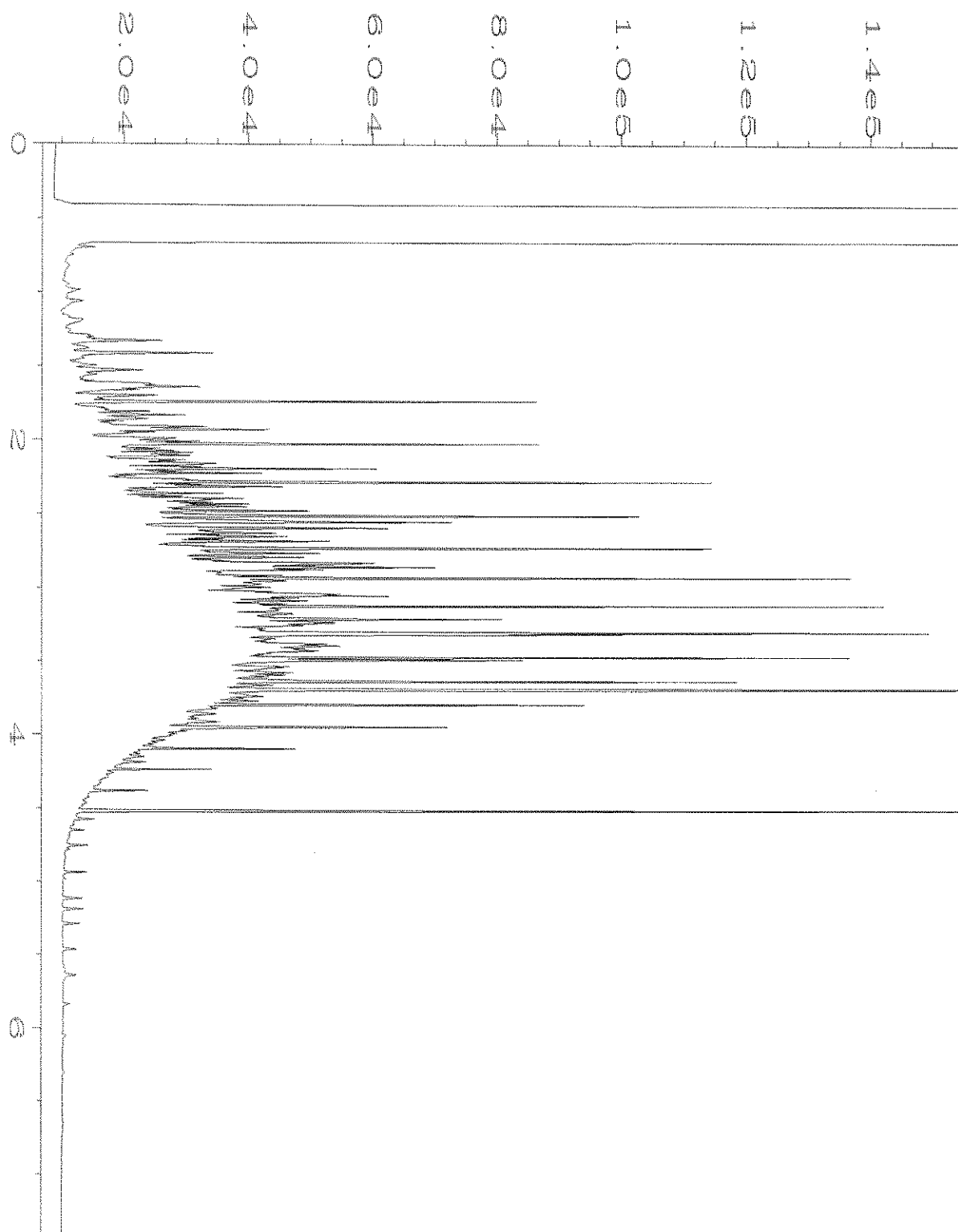
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\10-19-20\022F0501.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 22 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 010270-01 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 19 Oct 20 03:24 PM | Analysis Method | : DX.MTH |
| Report Created on: | 20 Oct 20 09:19 AM | | |



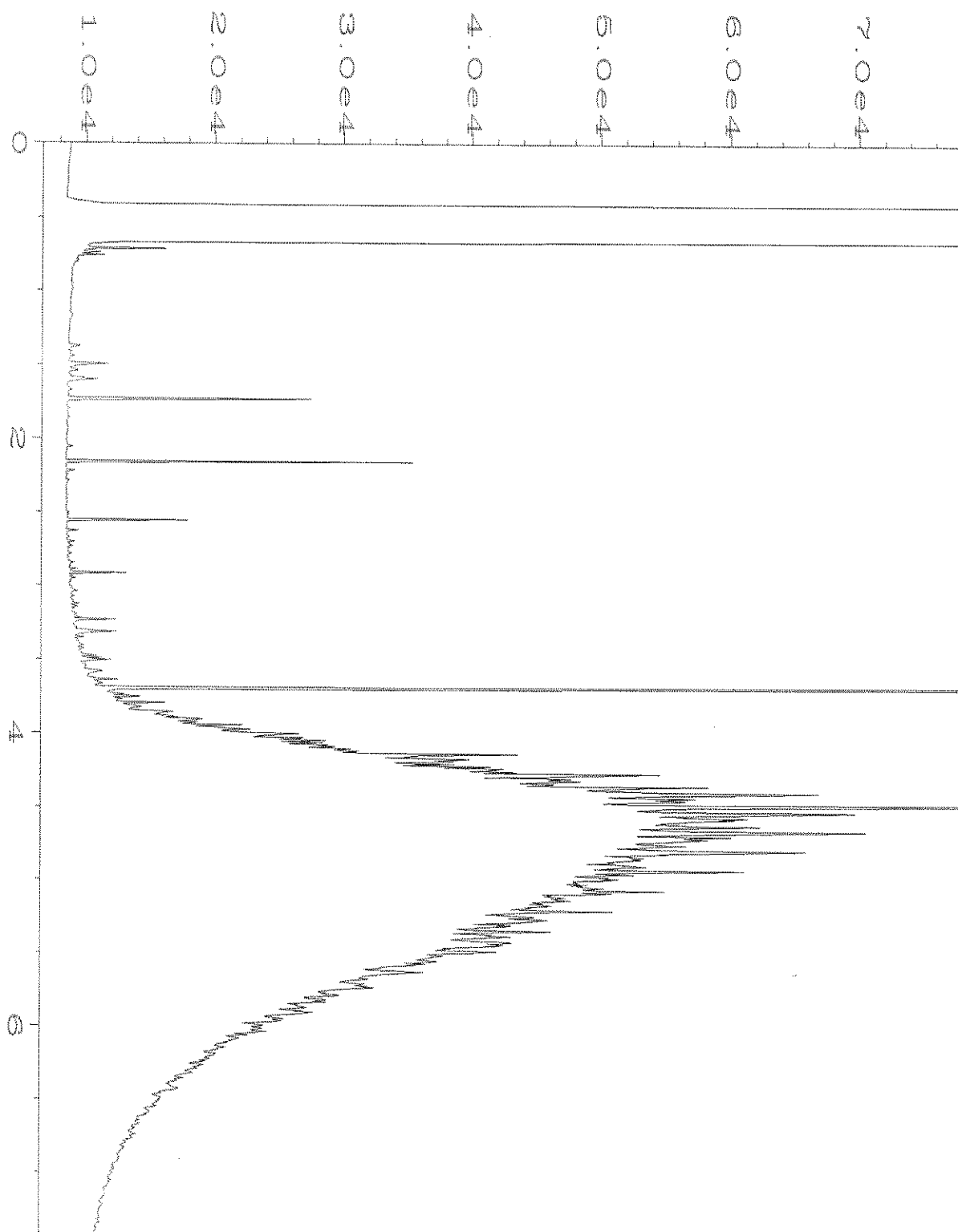
| | | | |
|--------------------|--|-------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\10-19-20\023F0501.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 23 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 010270-03 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method | : DX.MTH |
| Acquired on | : 19 Oct 20 03:36 PM | Analysis Method | : DX.MTH |
| Report Created on: | 20 Oct 20 09:19 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\10-19-20\019F0501.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 19 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 00-2345 mb | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 19 Oct 20 02:52 PM | Analysis Method | : DX.MTH |
| Report Created on: | 20 Oct 20 09:19 AM | | |



| | | | |
|--------------------|--|-------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\10-19-20\003F0201.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 60-170C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method | : DX.MTH |
| Acquired on | : 19 Oct 20 06:01 AM | Analysis Method | : DX.MTH |
| Report Created on: | 20 Oct 20 09:18 AM | | |



| | | | |
|--------------------|--|-------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\10-19-20\002F0601.D | Page Number | : 1 |
| Operator | : TL | Vial Number | : 2 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 MO 60-134D | Sequence Line | : 6 |
| Run Time Bar Code: | | Instrument Method | : DX.MTH |
| Acquired on | : 19 Oct 20 04:23 PM | Analysis Method | : DX.MTH |
| Report Created on: | 20 Oct 20 09:18 AM | | |

010270

SAMPLE CHAIN OF CUSTODY^{ME}

10-15-20 E04/vw3

Report To Carolyn WiseCompany Mail Foster & AlongiAddress 1329 N State St, Ste 301City, State, ZIP Bellingham, WA 98225Phone (360) 690-5782 Email cwise@mailfoster.comSAMPLERS (signature) [Signature]

PROJECT NAME

North Cascade Ford

PO #

0747.01.12

REMARKS

INVOICE TO

accounting@mailfoster.com

Project specific RLs? - Yes / No

Page # 1 of 1

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | ANALYSES REQUESTED | | | | | | | | | | Notes |
|-----------------|--------|--------------|--------------|-------------|-----------|---------------------|---------------------|---------------|------------|---------------|---------------|---------------|-----------------------|--|--|-------------------|
| | | | | | | DETROIT by NWTPH-Dx | DETROIT by NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | EPH/VPH by NW-EPH/VPH | | | |
| MW10-GW-101420 | 01A-K | 10/14/20 | 0900 | W | 8 | X | X | | | | | | X | | | |
| MW02R-GW-101420 | 02 | 10/14/20 | 0930 | W | 8 | X | X | | | | | | X | | | +Hdd EPH/VPH |
| MW01R-GW-101420 | 03 | 10/14/20 | 1140 | W | 8 | X | X | | | | | | X | | | |
| MW09-GW-101420 | 04 | 10/14/20 | 1045 | W | 8 | X | X | | | | | | X | | | +Hdd EPH/VPH |
| Trip blank | 05 A-B | | | | 2 | | | | | | | | | | | added TB 10/15/20 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

per AB
10/16/20
↓

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|---------------------|---------------------------------|-----------------|--------------|
| Relinquished by: <u>[Signature]</u> | <u>Amanda Bixby</u> | <u>MFA</u> | <u>10/14/20</u> | <u>1400</u> |
| Received by: <u>[Signature]</u> | <u>Khoi Hoang</u> | <u>FBI</u> | <u>10/15/20</u> | <u>15:50</u> |
| Relinquished by: _____ | | | | |
| Received by: _____ | | Samples received at <u>4 °C</u> | | |

ATTACHMENT E

DATA VALIDATION MEMORANDA



DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 0747.01.12 | OCTOBER 12, 2020 | VSF PROPERTIES, LLC

Maul Foster & Alongi, Inc. (MFA) conducted an independent review of the quality of analytical results for groundwater and soil samples collected at the North Cascade Ford site in September 2020.

Friedman & Bruya, Inc. (FBI) of Seattle, Washington performed the analyses. FBI report numbers 009250 and 009424 were reviewed. The analyses performed and samples analyzed are listed below. Samples submitted to FBI on hold are also indicated.

| Analysis | Reference |
|---|-----------|
| BTEX | EPA 8021B |
| Diesel- and Motor Oil-Range Hydrocarbons | NWTPH-Dx |
| Gasoline-Range Hydrocarbons | NWTPH-Gx |
| Naphthalenes | EPA 8270E |
| NOTES: BTEX = benzene, toluene, ethylbenzene, and xylenes. EPA = U.S. Environmental Protection Agency. NWTPH = Northwest Total Petroleum Hydrocarbons. | |

| Samples Analyzed | |
|------------------|-----------------|
| Report 009250 | Report 009424 |
| GP79-S-8.5 | MW02R-GW-092220 |
| MW10-S-11.0 | MW04-GW-092220 |
| -- | MW10-GW-092220 |
| -- | MW06-GW-092220 |
| -- | MW12-GW-092220 |
| -- | MW09-GW-092220 |
| -- | MW01R-GW-092220 |
| -- | MW07-GW-092220 |
| -- | MW11-GW-092220 |
| -- | MWDup-GW-092220 |
| -- | Trip Blank |

DATA QUALIFICATIONS

Analytical results were evaluated according to applicable sections of U.S. Environmental Protection Agency (EPA) procedures (EPA, 2017a,b) and appropriate laboratory and method-specific guidelines (EPA, 1986; FBI, 2019).

Data validation procedures were modified, as appropriate, to accommodate quality-control requirements for methods not specifically addressed by the EPA procedures (e.g., Northwest Total Petroleum Hydrocarbons [NWTPH]-Dx).

According to report 009424, FBI indicated that the NWTPH-Dx diesel-range hydrocarbon detected results for samples MW02R-GW-092220, MW04-GW-092220, MW09-GW-092220, MW07-GW-092220, and MW11-GW-092220; as well as all detected motor oil-range hydrocarbon results had chromatographic patterns that did not resemble the diesel fuel standard used for quantitation. The results were reported as diesel-range hydrocarbons; thus, qualification was not required.

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

The samples were preserved and stored appropriately.

BLANKS

Method Blanks

Method blank results are used to demonstrate a lack of contamination from laboratory processes. Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the method blanks were associated with all samples prepared in the analytical batch.

All laboratory method blank results were non-detect.

Trip Blanks

A trip blank sample was submitted for EPA Method 8021B analysis with samples submitted for report 009424. The trip blank was non-detect to method reporting limits (MRLs) for all target analytes.

Equipment Rinsate Blanks

Equipment rinsate blanks were not required for this sampling event, as all samples were collected using dedicated, single-use equipment.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples.

All surrogate recoveries were within acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Matrix spike/matrix spike duplicate (MS/MSD) results are used to evaluate laboratory precision and accuracy. All MS/MSD samples were extracted and analyzed at the required frequency.

All MS/MSD results were within acceptance limits for percent recovery and relative percent differences (RPDs).

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. All duplicate samples were extracted and analyzed at the required frequency. Laboratory duplicate results within five times the MRL were not evaluated for precision. All laboratory duplicate RPDs were within acceptance limits.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) is spiked with target analytes to provide information on laboratory precision and accuracy. The LCS/LCSD samples were extracted and analyzed at the required frequency.

All LCS/LCSD results were within acceptance limits for percent recovery and RPD.

FIELD DUPLICATE RESULTS

Field duplicate samples measure both field and laboratory precision. One field duplicate was submitted for analysis with report 009424 (MW11-GW-092220/MWDup-GW-092220). MFA uses acceptance criteria of 100 percent RPD for results that are less than five times the MRL, or 50 percent RPD for results that are greater than five times the MRL. Non-detect data are not used in the evaluation of field duplicate results. According to report 009424, the field duplicate NWTPH-Dx diesel-range hydrocarbon RPD was 54.6 percent. The field sample result was greater than five times the MRL of 50 micrograms per liter (ug/L), at 350 ug/L, and the field duplicate sample was less than five times the MRL, at 200 ug/L. Because the exceedance was minor and the field duplicate sample result was less than five times the MRL, the results were not qualified by the reviewer.

All field duplicate RPD results were within the acceptance criteria.

CONTINUING CALIBRATION VERIFICATION RESULTS

Continuing calibration verification (CCV) results are used to demonstrate instrument precision and accuracy through the end of the sample batch. FBI did not report CCV results.

REPORTING LIMITS

FBI used routine reporting limits for non-detect results, except for samples requiring dilutions because of high analyte concentrations and/or matrix interferences.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies.

According to report 009424, the trip blank sample was submitted to FBI by MFA but was not recorded on the chain of custody (COC) by the sampler. The trip blank and EPA Method 8021B analysis request was recorded on the COC by the laboratory.

No additional issues were found.

REFERENCES

EPA. 1986. Test methods for evaluating solid waste, physical/chemical methods. EPA publication SW-846. 3d ed. U.S. Environmental Protection Agency. Final updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015), VI phase I (2017), VI phase II (2018), and VI phase III (2019).

EPA. 2017a. USEPA contract laboratory program, national functional guidelines for inorganic Superfund methods data review. EPA 540-R-2017-001. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. January.

EPA. 2017b. USEPA contract laboratory program, national functional guidelines for Superfund organic methods data review. EPA 540-R-2017-002. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. January.

FBI. 2019. Quality assurance manual. Rev. 16. Friedman & Bruya, Inc., Seattle, Washington. October 2.

DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 0747.01.12 | NOVEMBER 9, 2020 | VSF PROPERTIES, LLC

Maul Foster & Alongi, Inc. (MFA) conducted an independent review of the quality of analytical results for groundwater samples collected at the North Cascade Ford site on October 14, 2020.

Friedman & Bruya, Inc. (FBI) and Fremont Analytical (FA) of Seattle, Washington performed the analyses. FBI report number 010270 was reviewed. Samples MW10-GW-101420 and MW01R-GW-101420 were sent to FA for extractable petroleum hydrocarbons and volatile petroleum hydrocarbons analysis and the report is amended to the end of the FBI report. The analyses performed and samples analyzed are listed below.

| Analysis | Reference |
|--|-----------|
| Diesel- and Motor Oil-Range Hydrocarbons | NWTPH-Dx |
| Extractable Petroleum Hydrocarbons | NWEPH |
| Gasoline-Range Hydrocarbons | NWTPH-Gx |
| Volatile Petroleum Hydrocarbons | NWVPH |

NOTES:

NWEPH = Northwest Extractable Petroleum Hydrocarbons.

NWTPH = Northwest Total Petroleum Hydrocarbons.

NWVPH = Northwest Volatile Petroleum Hydrocarbons.

| Samples Analyzed |
|-----------------------------|
| Report 010270 |
| MW10-GW-101420 |
| MW02R-GW-101420 (HOLD) |
| MW01R-GW-101420 |
| MW09-GW-101420 (HOLD) |
| Trip Blank-GW-101420 (HOLD) |

DATA QUALIFICATIONS

Analytical results were evaluated according to applicable sections of U.S. Environmental Protection Agency (EPA) procedures (EPA, 2017) and appropriate laboratory and method-specific guidelines (EPA, 1986; FA; 2019; FBI, 2019).

Data validation procedures were modified, as appropriate, to accommodate quality-control requirements for methods not specifically addressed by the EPA procedures (e.g., NWTPH-Dx).

According to report 010270, FBI indicated that the NWTPH-Dx diesel-range hydrocarbon and/or oil-range hydrocarbon detected results for samples MW10-GW-101420 and MW01R-GW-101420 had chromatographic patterns that did not resemble the fuel standard used for quantitation. The results were reported as diesel and oil-range hydrocarbons; thus, qualification was not required.

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

The samples were preserved and stored appropriately.

BLANKS

Method Blanks

Method blank results are used to demonstrate a lack of contamination from laboratory processes. Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the method blanks were associated with all samples prepared in the analytical batch.

All laboratory method blank results were non-detect.

Trip Blanks

A trip blank sample was submitted on hold and after initial COC relinquishment (added October 16, 2020) with samples submitted for report 010270.

Equipment Rinse Blanks

Equipment rinse blanks were not required for this sampling event, as all samples were collected using dedicated, single-use equipment.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples.

The reviewer took no action based on minor surrogate outliers or surrogate percent recoveries that were outside of acceptance limits due to dilutions necessary to quantify high

concentrations of target analytes present in the samples. The laboratory appropriately documented and qualified surrogate outliers. Associated batch quality assurance/quality control for samples with surrogate outliers was within acceptance limits.

In report 010270, the NWEPH batch 30111 surrogate compounds, 1-chlorooctadecane and o-terphenyl, recoveries for samples MW10-GW-101420 and MW01R-GW-101420 were below the lower acceptance criteria of 60 percent, at 53.1 percent and 41.8 percent and 52.2 percent and 46.6 percent, respectively. The validator confirmed with the laboratory that the samples were re-analyzed, and the surrogate recoveries were low in the reanalysis. The associated NWEPH results have been qualified in the table below.

| Report | Sample | Component | Original Result (ug/L) | Qualified Result (ug/L) |
|--------|-----------------|---------------------------------|------------------------|-------------------------|
| 010270 | MW10-GW-101420 | Aliphatic Hydrocarbon (C8-C10) | 84.3 U | 84.3 UJ |
| | | Aliphatic Hydrocarbon (C10-C12) | 42.1 U | 42.1 UJ |
| | | Aliphatic Hydrocarbon (C12-C16) | 42.1 U | 42.1 UJ |
| | | Aliphatic Hydrocarbon (C16-C21) | 42.1 U | 42.1 UJ |
| | | Aliphatic Hydrocarbon (C21-C34) | 42.1 U | 42.1 UJ |
| | | Aromatic Hydrocarbon (C8-C10) | 84.3 U | 84.3 UJ |
| | | Aromatic Hydrocarbon (C10-C12) | 84.4 | 84.4 J |
| | | Aromatic Hydrocarbon (C12-C16) | 105 | 105 J |
| | | Aromatic Hydrocarbon (C16-C21) | 75.4 | 75.4 J |
| | | Aromatic Hydrocarbon (C21-C34) | 42.1 U | 42.1 UJ |
| | MW01R-GW-101420 | Aliphatic Hydrocarbon (C8-C10) | 89.7 U | 89.7 UJ |
| | | Aliphatic Hydrocarbon (C10-C12) | 44.9 U | 44.9 UJ |
| | | Aliphatic Hydrocarbon (C12-C16) | 44.9 U | 44.9 UJ |
| | | Aliphatic Hydrocarbon (C16-C21) | 44.9 U | 44.9 UJ |
| | | Aliphatic Hydrocarbon (C21-C34) | 44.9 U | 44.9 UJ |
| | | Aromatic Hydrocarbon (C8-C10) | 89.7 U | 89.7 UJ |
| | | Aromatic Hydrocarbon (C10-C12) | 44.9 U | 44.9 UJ |
| | | Aromatic Hydrocarbon (C12-C16) | 44.9 U | 44.9 UJ |
| | | Aromatic Hydrocarbon (C16-C21) | 44.9 U | 44.9 UJ |
| | | Aromatic Hydrocarbon (C21-C34) | 44.9 U | 44.9 UJ |

NOTES:

J = result is estimated.

U = result is non-detect.

ug/L = micrograms per liter.

UJ = result is non-detect, limit reported is considered an estimate.

All remaining surrogate recoveries were within acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Matrix spike/matrix spike duplicate (MS/MSD) results are used to evaluate laboratory precision and accuracy. Report 010270 included the analysis of laboratory control samples

(LCS) and laboratory control sample duplicates (LCSD) in lieu of MS/MSDs. No actions were required by the reviewer.

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. All duplicate samples were extracted and analyzed at the required frequency. Laboratory duplicate results within five times the method reporting limit were not evaluated for precision. All laboratory duplicate relative percent differences (RPDs) were within acceptance limits.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

An LCS/LCSD is spiked with target analytes to provide information on laboratory precision and accuracy. The LCS/LCSD samples were extracted and analyzed at the required frequency.

In report 010270, the NWEPH batch 30111 LCS and LCSD had multiple aliphatic hydrocarbon recoveries below the lower acceptance limit of 70 percent, ranging from 24.0 percent to 62.4 percent; and RPD exceedances of the 20 percent limit, at 21.7 percent and 26.7 percent. The associated sample results have previously been qualified in the surrogate section; thus, no additional qualifications were necessary.

In report 010270, the NWEPH batch 30111 LCS and LCSD had multiple aromatic hydrocarbon recoveries below the lower acceptance limit of 70 percent, ranging from 17.0 percent to 61.8 percent; and RPD exceedances of the 20 percent limit, at 32.6 percent and 25.4 percent. The associated sample results have previously been qualified in the surrogate section; thus, no additional qualifications were necessary.

All remaining LCS/LCSD results were within acceptance limits for percent recovery and RPD.

FIELD DUPLICATE RESULTS

Field duplicate samples measure both field and laboratory precision. No field duplicate samples were submitted with this laboratory report.

CONTINUING CALIBRATION VERIFICATION RESULTS

Continuing calibration verification (CCV) results are used to demonstrate instrument precision and accuracy through the end of the sample batch. FBI and FA did not report CCV results.

REPORTING LIMITS

FBI and FA used routine reporting limits for non-detect results, except for samples requiring dilutions because of high analyte concentrations and/or matrix interferences.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies.

No issues were found.

REFERENCES

EPA. 1986. Test methods for evaluating solid waste, physical/chemical methods. EPA publication SW-846. 3d ed. U.S. Environmental Protection Agency. Final updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015), VI phase I (2017), VI phase II (2018), and VI phase III (2019).

EPA. 2017. EPA contract laboratory program, national functional guidelines for Superfund organic methods data review. EPA 540-R-2017-002. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. January.

FA. Quality assurance and quality control programs. Revision 3.2. Fremont Analytical, Inc. Seattle, Washington. April 18.

FBI. 2019. Quality assurance manual. Rev. 16. Friedman & Bruya, Inc., Seattle, Washington. October 2.