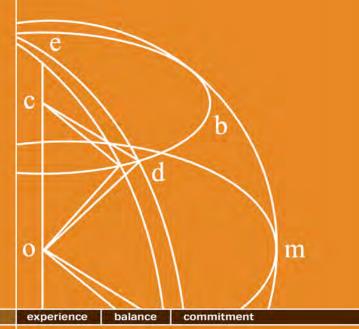


Whitten Oil
Monitoring Well Decommissioning/
Installation and Groundwater
Monitoring Event For September/
October 2020

Whitty's Chevron 370 West 5th Avenue Colville, Washington 99114

Project Number: 213162.00

Date: January 8, 2021



Prepared for:

Jeff Whitten 1118 27th Avenue Seattle, Washington 98122

Prepared by:

Fulcrum Environmental Consulting, Inc. 207 West Boone Avenue Spokane, Washington 99201



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Report Integrity

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1.0 INTRODUCTION

On September 30, 2020, Fulcrum Environmental Consulting, Inc. (Fulcrum) coordinated the decommissioning of two (2) historical monitoring wells and installation of four (4) new wells at Whitty's Chevron located at 370 West 5th Avenue in Colville, Washington. Historic monitoring wells MW-04 and MW-06 were decommissioned due to failing surface seals and poor recharge rates. These two (2) wells were replaced with new monitoring wells and two (2) additional wells were added to the site. Monitoring well MW-02 was installed



Whitty's Chevron 370 West 5th Avenue, Colville, Washington

upgradient behind the gas station where the former Leaking Underground Storage Tanks (LUSTs) were removed and monitoring well MW-07 was installed downgradient at the northwest corner of the property to act as a downgradient sentinel well. Figure 1 presents a general Site Location Map.



View of monitoring well MW-06 being installed north of the carwash. The historical MW-06 was decommissioned in place (see arrow).

On October 14, 2020, Fulcrum conducted semi-annual groundwater monitoring for seven (7) onsite monitoring wells to evaluate monitoring well performance and petroleum hydrocarbon impacts to site groundwater associated with a historical gasoline release identified in September 1989.

Monitoring well installation and sampling was directed by Travis Trent, Washington State Licensed Hydrogeologist. Scott Groat, a Washington State recognized Geologist-In-Training, provided site services under the direction of Mr. Trent. Relevant professional certifications are presented in Appendix A. Well decommissioning and installation services

were conducted by Environmental West Exploration, Inc. (Environmental West) a, Washington State Licensed driller.

1.1 Scope of Services

Fulcrum was retained by Whitten Oil (Whitten) to complete groundwater monitoring well decommissioning and installation services, monitoring well development activities, waste characterization of onsite soil cuttings and wash water associated with well installation activities,



and to conduct semi-annual groundwater sampling services utilizing existing and newly installed onsite groundwater monitoring wells at Whitty's Chevron located at 370 West 5th Avenue in Colville, Washington. In September 2020, Fulcrum oversaw the decommissioning of two (2) historical monitoring wells MW-04 and MW-06; and the installation of four (4) new groundwater monitoring wells MW-02, MW-04, MW-06, and MW-07.

Following well installation services, Fulcrum conducted a semi-annual sampling event which consisted of the measurement of water depths in seven (7) onsite groundwater monitoring wells followed by collection of water samples from each well. All samples were collected in accordance with industry standard of care and were submitted under a standard chain of custody to a Washington State accredited laboratory to be analyzed for benzene, toluene, ethyl benzene, xylene (BTEX), gasoline-range extended organics, diesel-range extended organics, and heavy oil-range extended organics. Documentation of September 2020 monitoring well decommissioning and installation activities and results from investigation and testing from October 2020, are presented in this summary report.

1.2 Site Description

The site is located on the northeast corner of West Fifth Avenue (U.S. Highway 395) and North Lincoln Street in Colville, Washington. The subject facility functions as an active gasoline service station and car wash. One refueling area containing one (1) dispenser island is located south of the office building, while another gasoline/diesel refueling area with two (2) dispenser islands is located north of the office building. A more recently constructed dispensing island is located southeast of the office building. Four (4) operational underground storage tanks (USTs) are reported to be located west of the office building within the southern



View looking southwest across site, a drill rig can be seen installing the new MW-04 well in the background.

portion of the property: two 10,000-gallon diesel tanks, one 6,000-gallon premium gasoline tank, and one 10,000-gallon unleaded gasoline tank. An operational six-bay carwash station is located northwest of the office building.

The entire surface of the property was observed to be covered by concrete or asphalt with the exception of a small area immediately east of the office building which was finished with gravel. Historical reports and onsite observations from recent well installation indicate that beneath the paved surface are 3 to 8 feet (ft) of sandy fill material underlain by fine-grained alluvium down to approximately 15 feet below ground surface (ft bgs).



1.3 Site Hydrogeology

The site sits approximately 1,586 feet (ft) above mean sea level (MSL). The inferred groundwater flow direction is to the northwest, generally following surface topography of the area, with a hydraulic gradient of 0.042.

During Fulcrum's investigation, recorded site groundwater levels ranged from 4.53 to 9.65 ft bgs.

1.4 Background

The following information is summarized in part, from prior project reporting provided by the owner. Fulcrum has made no independent investigation to verify accuracy of provided historical site information. A copy of select representative historical documentation is provided in Appendix B.

The subject facility has been in operation as a service station or bulk plant since the 1950s. Whitten Oil began operation around 1973, and the carwash was constructed around 1988. In September 1989, Petroleum Equipment Sales, Inc. (PES) was reportedly retained to decommission and replace onsite USTs during the construction of a new tank basin. Sunrise Environmental Services (SES) was reportedly retained by PES to observe the removal of the USTs and provide recommendations for corrective action. PES reportedly removed a total of six (6) USTs from the site, with one (1) UST abandoned in place due to its location beneath the onsite office building. Three (3) of the USTs were reported to have been suspect for leakage. Approximately 1,200 cubic yards of petroleum-contaminated soil was removed along with the USTs.

Following removal of the USTs and associated contaminated soils, additional site investigation was conducted to evaluate the potential for residual soil and/or groundwater impact. In January 1990, Delta Environmental Consultants (Delta) supervised drilling activities performed by Budinger & Associates. Six soil borings were drilled in suspected areas of petroleum hydrocarbon contamination to investigate for potential petroleum hydrocarbon impact to site soils/groundwater. The depth of soil borings ranged from 10- to 14.5-ft bgs. Soil samples were collected at five-foot intervals during the advancement of soil borings. Soil samples that exhibited a petroleum hydrocarbon odor were submitted to Technology Laboratory, Inc. of Fort Collins, Colorado for benzene, toluene, ethylbenzene, xylenes (BTEX) and total hydrocarbon analyses. Laboratory analysis identified petroleum hydrocarbons in only one (1) of the collected samples (SB-5). Concentrations were reportedly below Washington State Department of Ecology's specified guidelines at the time.



All soil borings, with the exception of SB-5, were completed as groundwater monitoring wells, and groundwater samples were collected and submitted to Technology Laboratory, Inc. of Fort Collins, Colorado, for BTEX and total hydrocarbon analyses. Laboratory analyses for BTEX and total hydrocarbons indicated that the groundwater had been impacted at the subject site. The highest hydrocarbon concentrations were detected in groundwater samples from monitoring wells MW-2 and MW-4, which were located in close proximity to the former UST basin. Detectable hydrocarbon concentrations were also found in downgradient monitoring well MW-6. It was Delta's professional opinion that site conditions posed little threat to humans or the environment due to tight soil conditions, thus preventing contamination from migrating off site. Therefore, no significant remedial action was recommended. Locations of the historical soil borings, monitoring wells, and approximate areas of excavation are presented as Figure 2. Historical soil boring and groundwater monitoring data is presented as Appendix B.

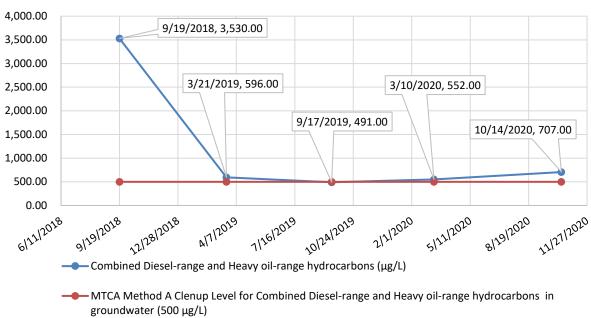
In December 2005, additional soil sampling was conducted by Northwest Environmental Solutions, Inc. to facilitate the change in ownership for the subject site. The investigation consisted of five (5) soil borings drilled in areas proximal to regions of historical soil work or current UST presence. The depth of the soil borings ranged from 5- to 15-ft bgs. One (1) soil sample was collected at the bottom of each soil boring. All five (5) soil samples were submitted to Spectra Laboratories of Tacoma, Washington, for lead, methyl tert-butyl ether (MTBE), BTEX, and for diesel-range hydrocarbons by Northwest Total Petroleum Hydrocarbons as diesel (NWTPH-Dx), as oil (NWTPH-Oil), and as gasoline (NWTPH-Gx). Detectable analytes (gasoline range petroleum hydrocarbons, ethyl benzene, toluene, xylene, and lead) were reported in soil boring 2-A and toluene and xylene were detected in soil borings 2-C and 2-D; all were below MTCA Method A cleanup levels for soil. The 2005 historical soil boring results and locations are presented as Appendix C.

On September 30, 2020, Fulcrum coordinated and oversaw decommissioning of two (2) historical groundwater monitoring wells (MW-04 and MW-06) and installation of four (4) new monitoring wells. The two (2) decommissioned monitoring wells, MW-04 and MW-06, were identified by Fulcrum to have failing surface seals. New monitoring wells were placed in the MW-04 and MW-06 locations and two (2) additional monitoring wells were added to the site. Monitoring well MW-02 was installed in the area where the former LUSTs were removed and monitoring well MW-07 was installed downgradient at the northwest corner of the property to act as a sentinel well. In summary, a total of four (4) new monitoring wells were installed to provide additional characterization of the site's groundwater conditions.

General trending for combined diesel-range and heavy oil-range hydrocarbons concentrations from September of 2018 to October of 2020, in monitoring well MW-04, is presented in the following graph.



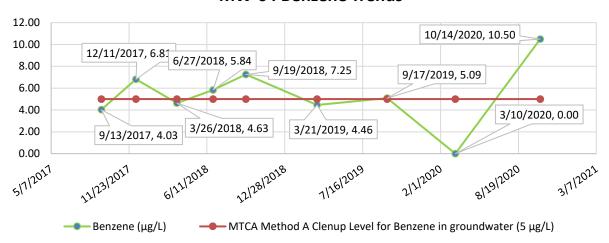




Results show relatively stable concentrations of combined diesel-range and heavy oil-range hydrocarbons in MW-04 at concentrations around the Method A cleanup level over the last four (4) semi-annual sampling events.

General trending of benzene concentrations from September 2017 to October 2020, is presented in the graph below.

MW-04 Benzene Trends

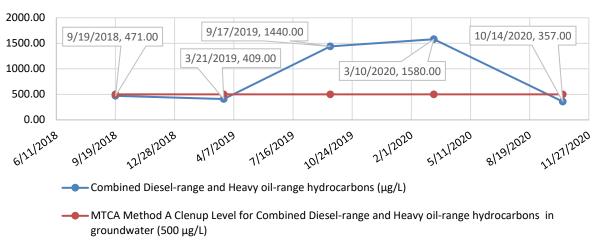




After monitoring of benzene began in September 2017, benzene concentrations have fluctuated between non-detect and 10.50 μ g/L. A general downward trend in benzene concentrations was observed since September of 2018, until the most recent sampling conducted in October of 2020, which identified benzene concentrations at 10.50 μ g/L. Increases and decreases in benzene concentrations appear to be associated with high and low groundwater levels, but additional data of groundwater characteristics will be necessary to predict future trends in benzene concentrations.

General trending for combined diesel-range and heavy oil-range hydrocarbons concentrations from September of 2018 to October of 2020, in monitoring well MW-06, is presented in the graph below.

MW-06 Combined Diesel-range and Heavy Oil-range Hydrocarbon Trends



Analytical results show that diesel-range and heavy oil-range hydrocarbons concentrations were trending upwards since March of 2019 to March of 2020. The most recent sampling event conducted in October 2020, identified combined diesel-range and heavy-oil range concentrations to have dropped from 1580.00 μ g/L to 357.00 μ g/L.

2.0 DISCUSSION OF PERTINENT REGULATIONS AND GUIDANCE

2.1 MTCA Regulations

In Washington State, MTCA Cleanup Regulations became effective in March of 1989, with amended MTCA Cleanup Regulations effective in February of 2001. The MTCA Cleanup



Regulations set standards to ensure quality of cleanup and protection of human health and the environment.

A major portion of the MTCA regulations are the development of numerical cleanup standards and requirements for cleanup actions. MTCA establishes three (3) options for site-specific cleanup levels: Method A, B, and C. Method A defines cleanup levels for 25-30 of the most common hazardous substances found in soil and groundwater. Method B cleanup levels are established using applicable state and federal laws, risk assessment equations, and other requirements specified for each medium. Method C is similar to Method B, but cleanup levels are based on less stringent exposure assumptions, and the lifetime cancer risk is set at 1 in 100,000 rather than 1 in 1,000,000.

2.2 MTCA Cleanup Standards

Contaminants of concern at the subject site are gasoline-range hydrocarbons, diesel-range hydrocarbons, and BTEX, for which regulatory cleanup limits are provided under MTCA Method A. Based on the contaminants released at the subject site, the Method A Cleanup Levels are the most appropriate and conservative for determining site cleanup.

3.0 FIELD ACTIVITIES

3.1 September 2020 - Well Installation and Decommissioning

On September 30, 2020, Fulcrum coordinated monitoring well decommissioning and installation activities at Whitty's Chevron located at 370 West 5th Avenue in Colville, Washington. A total of two (2) monitoring wells MW-04 and MW-06 were decommissioned due to failing surface seals and poor recharge rates. These well conditions were identified as the most likely source of recent contamination spikes observed within MW-04 and MW-06 during groundwater monitoring events conducted in 2019 and the spring of 2020.



View looking southwest across site, a drill rig can be seen installing the new MW-06 monitoring well in the background.



The two (2) decommissioned monitoring wells (MW-04 and MW-06) were installed in 1990, to allow for groundwater monitoring at the site. These monitoring wells were completed as follows:

- MW-04, adjacent to eastern wall of carwash: Completed to a depth of 14.5 feet below ground surface (bgs)
- MW-06, north of carwash in western portion of site: Completed to a depth of 14.5 feet bgs

Environmental West, A Washington State Licensed Driller was retained by Fulcrum to provide the decommissioning of the two (2) onsite monitoring wells in conformance with the requirements of Washington Administrative Code (WAC) 173-160-460. Fulcrum field geology staff met with Environmental West staff onsite to document well decommissioning activities. Fulcrum staff conducted a brief site health and safety meeting at the start of the monitoring well decommissioning and installation activities.



View of historical monitoring well MW-06 after decommissioning.

Well decommissioning activities completed by Environmental West consisted of infilling each monitoring well with bentonite chips to approximately 1-foot below ground surface level. The remaining space was filled with cement which was leveled at ground surface to complete well closure. Fulcrum observed and documented the decommissioning process for MW-04 and MW-06 confirming that the work met the requirements of WAC 173-160-460.

Once MW-04 and MW-06 were decommissioned, new monitoring wells were installed in their place. Two (2) additional wells were also installed on the property, monitoring well MW-02 was installed upgradient behind the gas station where the former Leaking Underground Storage Tanks (LUSTs) were removed and monitoring well MW-07 was installed downgradient at the northwest corner of the property. Resource Protection Well Decommissioning Reports are presented in Appendix D.

3.2 Monitoring Well Construction

On September 29, 2020, four (4) monitoring wells MW-02, MW-04, MW-06, and MW-07 were installed to the site. MW-02 and MW-06 were installed proximal to previously removed wells of the same designation. MW-02 was installed just north of office in an upgradient location and MW-07 was installed in a downgradient location proximal to the northwest corner of the property. All monitoring wells were completed as two-inch diameter monitoring wells. Each well was



constructed of schedule 40 PVC casing with 10 feet of No. 10 slot screen centered on the anticipated water table. Medium-grained, clean, washed silica sand was placed in the annular space to approximately one-foot above the screened interval. A one-foot bentonite seal was placed above the sand pack and neat cement grout filled the remainder of the well annulus to the ground surface. Each well was constructed down to 15-feet bgs and completed with a locking well seal and "monitoring well" manhole cover.



View of monitoring well MW-02 after completion of well installation.

3.3 Soil Cuttings and Wash Water Waste Characterization

Monitoring well installation activities resulted in four 55-gallon drums containing soil cuttings and one and a half drums containing wash water from decontaminating down-hole equipment between borings. Drums 1-4 contained soil cuttings associated with soil borings completed to install

monitoring wells MW-02, MW-04, MW-06, and MW-07. Drums 5 and 6 contained wash water associated with decontaminating down-hole equipment between borings.

Fulcrum collected composite samples from the soil and water waste drums and placed the samples in a precooled ice chest and shipped the samples under standard chain-of-custody for analysis to Fremont Analytical Inc. (Fremont); a Washington State certified laboratory located in Seattle, Washington.



View of soil and waste water drums associated with September 29, 2020, well installation activities.

All soil waste and water waste composite samples were analyzed for concentrations of gasoline-range hydrocarbons by Northwest Total Petroleum Hydrocarbons as Gasoline (NWTPH-Gx), diesel-range and heavy oil-range hydrocarbons by Northwest Total Petroleum Hydrocarbons as diesel (NWTPH-Dx), and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260c. Table 1 summarizes composite sample identification and analyte concentrations, which are reported in micrograms per kilogram (mg/kg).



Table 1: Whitty's Chevron Soil Waste Composite Sample Analytical Results – 10/14/2020

| Drums | | | Results (mg/kg) | | | | | | | | |
|-------------------------------------|-----------------------------|------------------------------|------------------------------------|--------------|---------|---------|-------------------|--------|--|--|--|
| | Sample | NWTI | PH-Dx | | | | | | | | |
| | Number | Diesel–range hydrocarbons | Heavy oil-range hydrocarbons | NWTPH- Gx | Benzene | Toluene | Ethyl- benzene | Xylene | | | |
| 1 - 4 | WOS- 101420- SCOMP-01 | ND | ND | 35.5 | ND | ND | ND | ND | | | |
| MTCA Cleanup Levels ¹ | | 50 | 0+ | 25+ | 0.0075+ | 1.75+ | 1.5+ | 2.25+ | | | |

Bold – MTCA Method A exceedance

ND – Nondetect

Laboratory analytical results were non-detect for NWTPH-Dx, benzene, toluene, ethylbenzene, and xylene. Laboratory analytical identified NWTPH-Gx at 35.5 mg/kg, which is above the MTCA Method A Cleanup Level for composite samples of 25 mg/kg indicating that the soil cuttings should be treated as petroleum contaminated soil for disposal purposes. A copy of the laboratory analytical report is presented in Appendix E.

Table 2: Whitty's Chevron Water Waste Composite Sample Analytical Results – 10/14/2020

| | | <u> </u> | | 1 | <u> </u> | | | | | | |
|-------------------------------------|---------------------------------|------------------------------|------------------------------------|----------|----------|---------|-------------------|--------|--|--|--|
| | | Results (mg/kg) | | | | | | | | | |
| Drum | Sampla | NWTI | PH-Dx | | | | | Xylene | | | |
| S | Sample Number | Diesel–range hydrocarbons | Heavy oil-range hydrocarbons | NWTPH-Gx | Benzene | Toluene | Ethyl- benzene | | | | |
| 5 - 6 | WOS- 101420- WCOMP- 01 | 89.2 | ND | ND | ND | ND | ND | ND | | | |
| MTCA Cleanup Levels ¹ | | 12 | 25+ | 200* | 1.25 | 250 | 175 | 250 | | | |

Bold – MTCA Method A exceedance

ND – Nondetect

⁺ MTCA Cleanup Levels reduced to 25% of cleanup due to composite sample mg/kg – Micrograms per kilogram (mg/kg), equivalent to parts per million (ppm)

 $^{^{1}}$ Model Toxic Cleanup Act Method A Cleanup Levels for groundwater in μ g/L, as established by the Washington State Department of Ecology

⁺ MTCA Cleanup Levels reduced to 25% of cleanup due to composite sample

Mg/kg – Micrograms per kilogram (mg/kg), equivalent to parts per million (ppm)

 $^{^1}$ Model Toxic Cleanup Act Method A Cleanup Levels for groundwater in μ g/L, as established by the Washington State Department of Ecology



Laboratory analytical results were non-detect for heavy oil-range hydrocarbons, NWTPH-Gx, benzene, toluene, ethylbenzene, and xylene. Laboratory analytical identified detectable concentrations of diesel-range hydrocarbons at 89.2 μ g/L, which is below the MTCA Method A Cleanup Level for composite samples of 125 μ g/L. Although the concentration was below regulatory thresholds, Fulcrum determined that is was most appropriate to designate the waste water as petroleum impacted for disposal purposes. A copy of the laboratory analytical report is presented in Appendix E.

3.4 Soil Cuttings and Wash Water Waste Disposal

October 14, 2020, waste characterization of the soil composite samples identified NWTPH-Gx to be above MTCA Method A Cleanup Levels for composite samples and waste characterization of the wash water composite samples identified detectable concentrations of diesel-range hydrocarbons. The waste water was mixed with solids to form a solid waste and all six drums were transported to the Graham Road Landfill disposal facility for disposal as petroleum contaminated soil December 16, 2020. A copy of the disposal receipt is presented in Appendix F.



View of soil and water waste containing drums loaded for transport to the Graham Road Landfill.

3.5 **Groundwater Sampling**

On October 14, 2020, Fulcrum completed groundwater sampling of the following seven (7) monitoring wells; CW-01, CW-02, MW-02, MW-03, MW-04, MW-06, and MW-07. Seven (7) groundwater samples (WOS-101420-CW01, -CW02, -MW02, -MW03, -MW04, -MW06, -MW07) and one (1) field duplicate sample (WOS-101420-MW08) were collected for a total of eight (8) groundwater samples.

Prior to sample collection, Fulcrum measured the depth to groundwater (DTW) and depth to bottom (DTB) utilizing an electronic water level indicator accurate to \pm 0.01 foot. Elevation corrections were made using wellhead elevation data from the subject site. Sampling activities were completed using a peristaltic pump or submersible pump and field water quality instruments. In each location the monitoring well was either pumped dry or for a minimum of three (3) well volumes. Field parameters were measure prior to, during, and following completion of the monitoring well pumping to ensure that they stabilized, indicating that sampled water was representative of groundwater.



Samples were placed in a pre-cooled ice chest and shipped under standard chain-of-custody for analysis to Fremont Analytical Inc. (Fremont); a Washington State certified laboratory located in Seattle, Washington. A site diagram map is presented as Figure 3.

While onsite, Fulcrum noted damage to the well cap of CW-02 (broken compression cap) that could put the monitoring well at risk for adverse impact associated with runoff from the proximal car wash bay. A new cap was placed on CW-02 during Fulcrum's October 2020 site visit.

4.0 RESULTS

4.1 Laboratory Analytical Results

All groundwater samples were analyzed for concentrations of gasoline-range hydrocarbons by Northwest Total Petroleum Hydrocarbons as Gasoline (NWTPH-Gx), diesel-range and heavy oil-range hydrocarbons by Northwest Total Petroleum Hydrocarbons as diesel (NWTPH-Dx), and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260c.



Table 3 summarizes sample identification, locations, and analyte concentrations, which are reported in micrograms per liter (μ g/L). Copies of current groundwater sampling laboratory analytical results are presented in Appendix G.

Table 3: Whitty's Chevron Groundwater Analytical Results for October 14, 2020

| | | | | | Result | s (µg/L) | | | | |
|--------------------|----------------------------------|-------------|---------------------------|------------------------------------|----------|----------|---------|-------------------|--------|--|
| T anation | Camala Namban | Groundwater | NWTPH-Dx | | | | | | | |
| Location | Sample Number | Elevation | Diesel-range hydrocarbons | Heavy oil-range hydrocarbons | NWTPH-Gx | Benzene | Toluene | Ethyl- benzene | Xylene | |
| CW-01 | WOS-101420-CW01 | 93.69 | 212.00 | ND | ND | ND | ND | ND | ND | |
| CW-02 [^] | WOS-101420-CW02 | 93.47 | 4,570.00 | 777.00 | 864.00 | 7.58 | 1.89 | 8.41 | 43.10 | |
| MW-02 | WOS-101420-MW02 | 93.09 | 249.00 | ND | 106.00 | ND | ND | ND | ND | |
| MW-03 | WOS-101420-MW03 | 92.07 | ND | ND | ND | ND | ND | ND | ND | |
| MW-04 | WOS-101420-MW04 | 93.47 | 707.00 | ND | 818.00 | 10.50 | 1.19 | 9.92 | 1.91 | |
| MW-06 | WOS-101420-MW06 | 87.62 | 357.00 | ND | 202.00 | ND | ND | ND | ND | |
| MW-07 | WOS-101420-MW07 | 86.55 | 179.00 | ND | ND | ND | ND | ND | ND | |
| | MTCA Cleanup Levels ² | | | 00 ⁺ | 800* | 5 | 1,000 | 700 | 1,000 | |

Bold – MTCA Method A exceedance

ND - Nondetect

^{*}Established cleanup level when benzene is present in groundwater

 $[\]mu$ g/L – Micrograms per liter (μ g/L), equivalent to parts per billion (ppb)

¹Model Toxic Cleanup Act Method A Cleanup Levels for groundwater in μg/L, as established by the Washington State Department of Ecology.

⁺ Diesel-range and heavy oil-range hydrocarbon concentrations are combined together per MTCA Method A cleanup standards for groundwater.

[^]Laboratory analytical results for the original and duplicate sample were combined due to variance between the samples.



4.2 Diesel-Range and Heavy Oil-Range Extended Organics

Laboratory analytical results report detectable concentrations for diesel-range hydrocarbons in monitoring wells CW-01, MW-02, MW-06, and MW-07 below MTCA Method A Cleanup Levels.

Laboratory analytical results identified diesel-range hydrocarbons in monitoring well MW-04 at 707.00 μ g/L, which is above the MTCA Method A Cleanup Level of 500 μ g/L. Laboratory analytical results identified diesel-range hydrocarbons at 4,570.00 μ g/L and heavy oil-range hydrocarbons at 707.00 μ g/L in monitoring well CW-02, which are both above the MTCA Method A Cleanup Level of 500 μ g/L.

Laboratory analytical results report non-detect concentrations of diesel-range and heavy oil-range hydrocarbons in monitoring well MW-03.

4.3 Gasoline-Range Extended Organics

Laboratory analytical results report detectable concentrations of gasoline-range hydrocarbons by NWTPH-Gx for monitoring well MW-02 at 106.00 μ g/L and MW-06 at 202.00 μ g/L, which are both below the MTCA Method A cleanup level of 800 μ g/L.

Laboratory analytical results identified gasoline-range hydrocarbons by NWTPH-Gx for monitoring well CW-02 at 818 μ g/L and 864 μ g/L, and MW-04 at 818.00 μ g/L, which are both above the MTCA Method A Cleanup Level of 800 μ g/L.

Laboratory analytical results report non-detect concentrations of gasoline-range hydrocarbons by NWTPH-Gx for monitoring wells CW-01, MW-03, and MW-07.

4.4 Benzene, Toluene, Ethylbenzene and Xylenes

Laboratory analytical results identified benzene concentrations in monitoring well CW-02 at 7.45 μ g/L and 7.58 μ g/L, and MW-04 at 10.50 μ g/L, which are both above the MTCA Method A Cleanup Levels of 5.00 μ g/L.

Laboratory analytical results identified detectable concentrations of toluene in monitoring well CW-02 at 1.89 μ g/L and MW-04 at 1.19 μ g/L, which are both below the MTCA Method A Cleanup Level of 1,000 μ g/L.



Laboratory analytical results identified detectable concentrations of ethylbenzene in monitoring well CW-02 at 8.26 μ g/L and 8.41 μ g/L, and MW-04 at 9.92 μ g/L, which are both below the MTCA Method A Cleanup Level of 700 μ g/L.

Laboratory analytical results identified detectable concentrations of xylene in monitoring well CW-02 at $42.20 \,\mu\text{g/L}$ and $43.10 \,\mu\text{g/L}$, and MW-04 at $1.19 \,\mu\text{g/L}$, which are both below the MTCA Method A Cleanup Level of $1,000 \,\mu\text{g/L}$.

Laboratory analytical results report non-detect concentrations for BTEX in monitoring wells CW-01, MW-02, MW-03, MW-06, and MW-07.

4.5 Hydraulic Results

The groundwater flow direction, as determined by this sampling and monitoring event, is northwest with a hydraulic gradient of 0.042 (1.40-ft change in groundwater depth over 95-feet), which is consistent with site geomorphology. A groundwater elevation map is presented as Figure 4.

4.6 Data Quality

Samples were shown as received by the laboratory at an acceptable temperature. Results for Fulcrum's field duplicate was identified as outside the normal range of variance with one (1) sample showing elevated diesel range hydrocarbons and the duplicate sample showing elevated oil range hydrocarbons. Discussion with the laboratory manager indicated that this may have been attributed to higher levels of petroleum product (free product) situated near the top of the duplicated sample container and not for the original sample. As a conservative approach, Fulcrum took the higher concentration from each sample result as presented in the above summary table. Qualifiers were not present in the laboratory quality control (QC) sample results report. Based on reported analytical results, identified cleanup standards, and the absence of lab data qualifiers, it is Fulcrum's opinion that field and laboratory data quality results confirm acceptable accuracy of analytical data for all samples with the exception of duplicate sample WOS-101420-MW08.

5.0 DISCUSSION

Fulcrum coordinated decommissioning of two (2) historical monitoring wells and installation of four (4) new wells. A brief discussion of the newly installed wells is provided below:

• **MW-02:** This monitoring well was installed approximately 30 ft north of the main office building in a upgradient location where the former LUSTs were removed. The monitoring



well was observed to have acceptable recharge rate and analytical results indicated that all groundwater contaminants where below their respective MTCA Method A Cleanup Levels.

- MW-04: This monitoring well was installed approximately 5 ft southwest from the original MW-04 location adjacent to the east end of the car wash bays. The monitoring well was observed to have acceptable recharge rate and analytical results indicated that all groundwater contaminants where comparable to their previous levels.
- MW-06: This monitoring well was installed approximately 4 ft northwest from the original MW-06 location which is approximately 25 ft north of the carwash bays. The monitoring well was observed to have a low recharge rate which may be attributed to the relatively new age of the well and limited well development which has taken place. Analytical results indicated that all groundwater contaminants where below their respective MTCA Method A Cleanup Levels. Previous diesel-range and heavy oil-range hydrocarbons concentrations for MW-06 were trending upwards since March of 2019 to March of 2020. The most recent sampling event conducted in October 2020, identified combined diesel-range and heavy-oil range concentrations to have dropped from 1580.00 μg/L to 357.00 μg/L.
- MW-08: This monitoring well was installed in a downgradient at the northwest corner of the property to act as a sentinel well. The monitoring well was observed to have a low recharge rate which may be attributed to the relatively new age of the well and limited well development which has taken place. Analytical results indicated that all groundwater contaminants where below their respective MTCA Method A Cleanup Levels.

Review of current groundwater analytical data indicates the following:

- **CW-01:** Analytical results for groundwater samples collected from the CW-01 reported detectable concentrations of diesel-range hydrocarbons below MTCA Method A Cleanup Levels. Analytical results for groundwater samples report concentrations of heavy oil-range hydrocarbons, gasoline-range hydrocarbons, benzene, toluene, ethyl benzene and xylene below the laboratory method of detection limit.
- CW-02: Analytical results for groundwater samples collected from CW-02 reported detectable concentrations of diesel-range hydrocarbons above MTCA Method A Cleanup Levels. Analytical results for groundwater samples report detectable concentrations for gasoline-range hydrocarbons above MTCA Method A Cleanup Levels. Analytical results for groundwater samples report detectable concentrations for benzene above MTCA Method A Cleanup Levels. Laboratory analytical results for groundwater samples report detectable concentrations for toluene, ethylbenzene, and xylene below their respective MTCA Method A Cleanup Levels.



- MW-02: Analytical results for groundwater samples collected from MW-02 reported detectable concentrations of diesel-range hydrocarbons below MTCA Method A Cleanup Levels. Analytical results for groundwater samples report detectable concentrations of gasoline-range hydrocarbons below MTCA Method A Cleanup Levels. Analytical results for groundwater samples report non-detectable concentrations for heavy oil-range hydrocarbons, benzene, toluene, ethylbenzene, and xylene at the laboratory method detection limit.
- **MW-03:** Analytical results for groundwater samples collected from MW-03 report non-detectable concentrations for diesel-range hydrocarbons, heavy oil-range hydrocarbons, gasoline-range hydrocarbons, benzene, toluene, ethylbenzene, and xylene at the laboratory method detection limit.
- MW-04: Analytical results for groundwater samples collected from MW-04 reported detectable concentrations of diesel-range hydrocarbons and heavy oil-range hydrocarbons above MTCA Method A Cleanup Levels. Analytical results for groundwater samples report detectable concentrations for gasoline-range hydrocarbons above MTCA Method A Cleanup Levels. Analytical results for groundwater samples report detectable concentrations for benzene above MTCA Method A Cleanup Levels. Laboratory analytical results for groundwater samples report detectable concentrations for toluene, ethylbenzene, and xylene below their respective MTCA Method A Cleanup Levels.
- MW-06: Analytical results for groundwater samples collected from MW-06 reported detectable concentrations of diesel-range hydrocarbons below MTCA Method A Cleanup Levels. Analytical results for groundwater samples report detectable concentrations of gasoline-range hydrocarbons below MTCA Method A Cleanup Levels. Analytical results for groundwater samples report non-detectable concentrations for heavy oil-range hydrocarbons, benzene, toluene, ethylbenzene, and xylene at the laboratory method detection limit.
- MW-07: Analytical results for groundwater samples collected from MW-07 reported detectable concentrations of diesel-range hydrocarbons below MTCA Method A Cleanup Levels. Analytical results for groundwater samples report non-detectable concentrations for heavy oil-range hydrocarbons, gasoline-range hydrocarbons, benzene, toluene, ethylbenzene, and xylene at the laboratory method detection limit.

The October 2020 groundwater analytical data indicates contaminant concentrations in all wells to be below MTCA method A cleanup levels with the exception of diesel-range hydrocarbons in CW-02 and MW-04, heavy oil-range hydrocarbons in CW-02, and gasoline-range and benzene in CW-02 and MW-04.

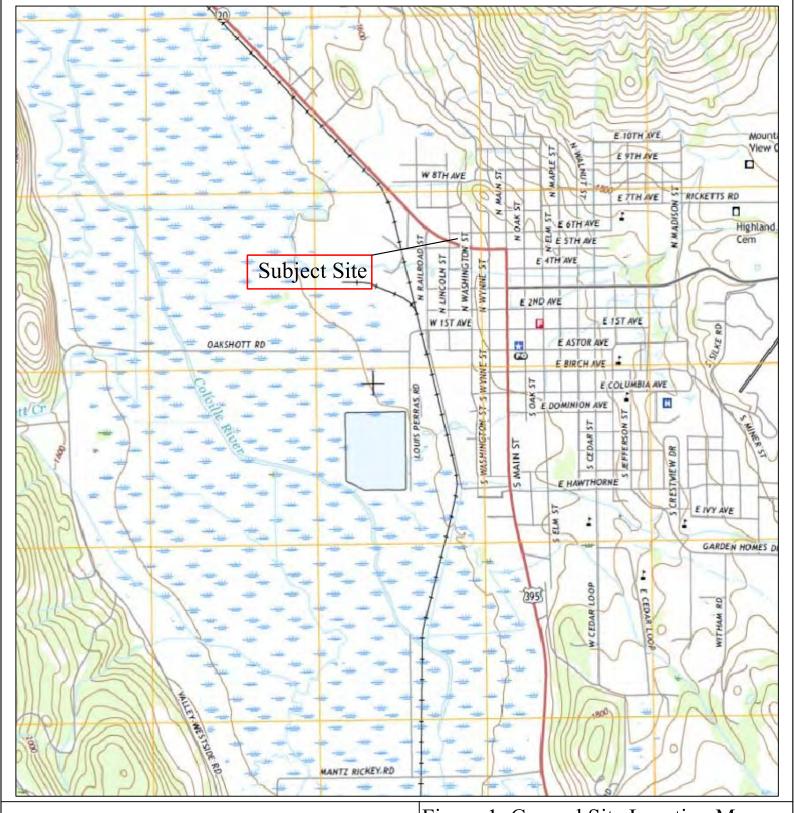


6.0 RECOMMENDATIONS

Based on the results of this investigation, Fulcrum recommends continuing semi-annual monitoring of the onsite monitoring wells.

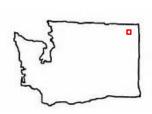


FIGURES



LEGEND

Map Location



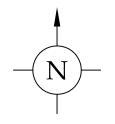


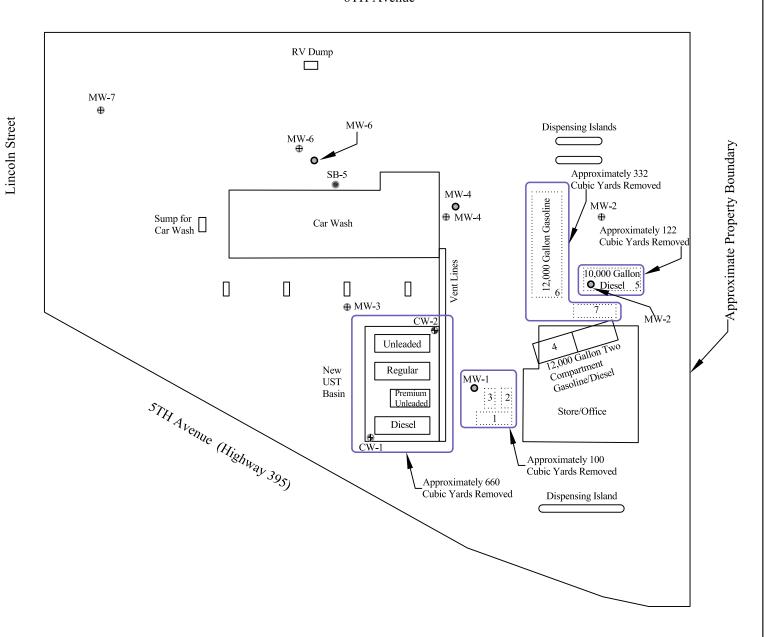
Figure 1: General Site Location Map

Second Semi-annual Groundwater Sampling Event October 2020 Whitty's Chevron 370 West 5th Avenue Colville, Washington



FULCRUM ENVIRONMENTAL CONSULTING, INC. 207 W. BOONE AVENUE SPOKANE, WASHINGTON 99201 (509) 459-9220 www.efulcrum.net

| MAP BY: S. Groat | PROJECT NUMBER: 172206.00 |
|-------------------------|---------------------------|
| DATE: November 11, 2020 | REVIEWED BY: T. Trent |



LEGEND

- Approximate extent of soil excavation
- Existing onsite UST
- Historical UST removed from site
- Historic Soil Boring
- Historical Monitoring Well
- Existing onsite Monitoring Well
- Existing onsite Compliance Well

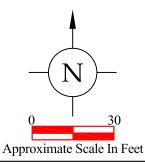


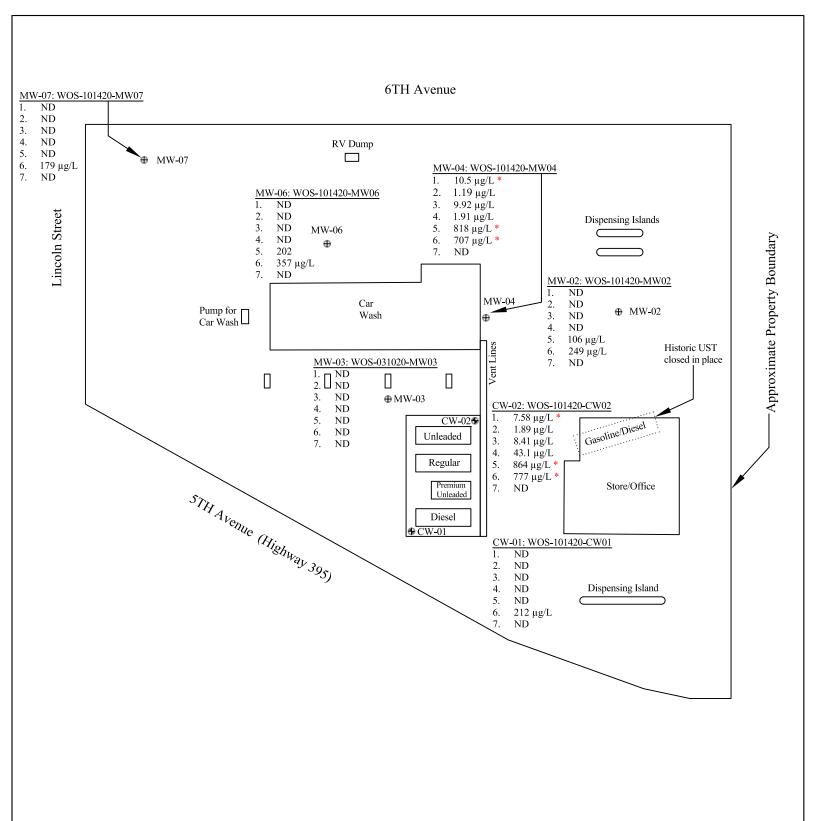
Figure 2: Historical USTs, Soil Borings, and Monitoring Wells Site Diagram Map

Second Semi-annual Groundwater Sampling Event October 2020 Whitty's Chevron 370 West 5th Avenue Colville, Washington



FULCRUM ENVIRONMENTAL CONSULTING, INC. 207 W. BOONE AVENUE SPOKANE, WASHINGTON 99201 (509) 459-9220 www.efulcrum.net

MAP BY: S. Groat PROJECT NUMBER: 172206.00
DATE: November 20, 2020 REVIEWED BY: T. Trent



LEGEND Parameters (µg/L) 1. Benzene

- 2. Toluene
- 3. Ethyl-benzene
- 4. **Xylenes**
- 5. **NWTPH-GX**
- **Diesel Range Organics** 6.
- 7. Heavy Oil
- \oplus Monitoring Well
- Compliance Well
- Analyte Concentration Exceeds MTCA Method A Cleanup Level

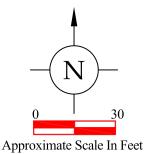


Figure 3: Site Diagram Map

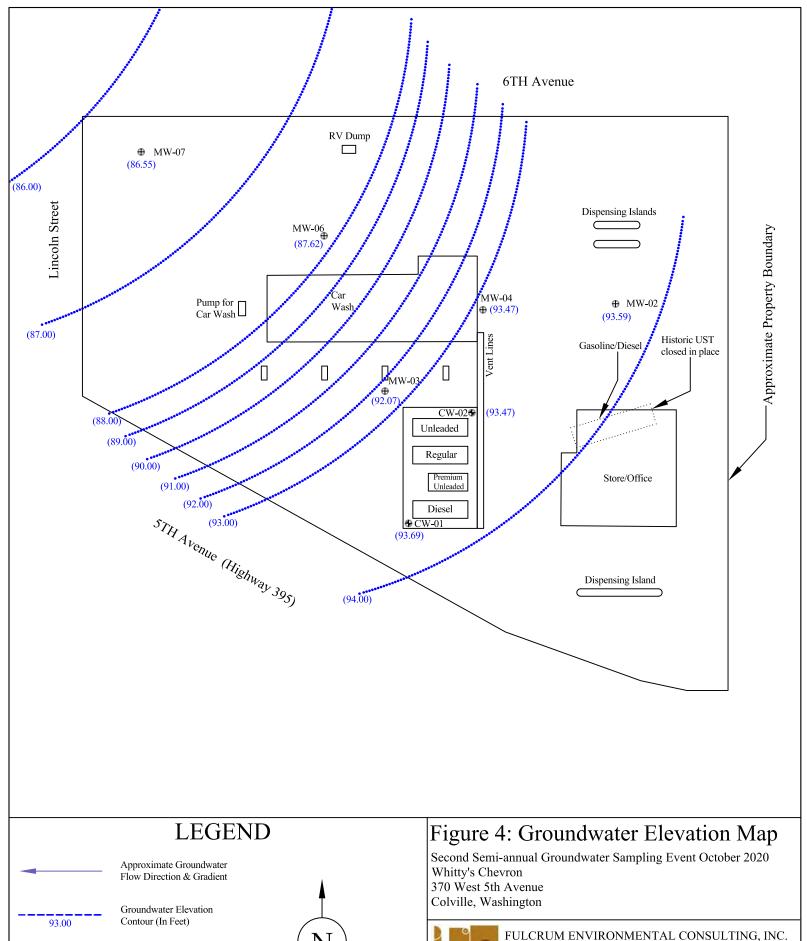
Second Semi-annual Groundwater Sampling Event October 2020 Whitty's Chevron 370 West 5th Avenue

Colville, Washington



FULCRUM ENVIRONMENTAL CONSULTING, INC. 207 W. BOONE AVENUE SPOKANE, WASHINGTON 99201 (509) 459-9220 www.efulcrum.net

| MAP BY: S. Groat | PROJECT NUMBER: 172206.00 |
|------------------------|---------------------------|
| DATE: December 8, 2020 | REVIEWED BY: T. Trent |



Monitoring Well (93.00)Groundwater Elevation (In Feet) Monitoring Well Approximate Scale In Feet Compliance Well



FULCRUM ENVIRONMENTAL CONSULTING, INC. 207 W. BOONE AVENUE SPOKANE, WASHINGTON 99201 (509) 459-9220 www.efulcrum.net

| MAP BY: S. Groat | PROJECT NUMBER: 172206.00 |
|------------------------|---------------------------|
| DATE: December 8, 2020 | REVIEWED BY: T. Trent |



APPENDIX A

Professional Certifications



STATE OF WASHINGTON



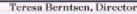
DEPARTMENT OF LICENSING – BUSINESS AND PROFESSIONS DIVISION
THIS CERTIFIES THAT THE PERSON OR BUSINESS NAMED BELOW IS AUTHORIZED AS A

GEOLOGIST Hydrogeologist

Travis L Trent 1127 W 8th Ave Spokane WA 99204-3107

364 License Number 2002-01-08 Issue Date 2021-06-06 Expiration Date







APPENDIX B

Summary of Historical Data

HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA

Whitty's Chervon

370 West Fifth Avenue Colville, Washington

| Boring | Sampling | ERP | DS | TD | TPH | Diesel-range hydrocarbons | Heavy oil-range hydrocarbons | Combined Diesel-range and Heavy oil-range | NWTPH-Gx | В | T | E | X |
|-------------|------------|----------------|--------------|----------------|-------------|------------------------------|------------------------------|--|-------------|-------------|-------------|-------------|-------------|
| ID | Date | (feet) | (feet) | (feet) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | $(\mu g/L)$ |
| SB-1 | 1/8/1990 | 100.20 | | 15.00 | | | | | | | | | |
| SB-2 | 1/8/1990 | 99.39 | 10.00 | 15.00 | ND | | | | ND | ND | ND | ND | ND |
| SB-3 | 1/9/1990 | 99.30 | | 15.00 | | | | | | | | | |
| SB-4 | 1/9/1990 | 98.96 | 5.00 | 15.00 | ND | | | | ND | ND | ND | ND | ND |
| SB-5 | 1/9/1990 | 99.29 | 5.00 | 15.00 | 1,220 | | | | | 0.476 | 1.38 | 5.62 | 50.2 |
| SB-6 | 1/9/1990 | 97.87 | | 15.00 | | | | | | | | | |
| Well | Sampling | ERP | DTW | GWE | ТРН | Diesel-range hydrocarbons | Heavy oil-range hydrocarbons | Combined Diesel-range and Heavy oil-range | NWTPH-Gx | В | T | Е | X |
| ID | Date | (feet) | (feet) | (feet) | $(\mu g/L)$ | (µg/L) | (µg/L) | (μg/L) | $(\mu g/L)$ |
| • | | | | | | | | | | | | | |
| CW-01 | 1/10/1990 | 99.50 | 5.82 | 93.68 | | | | | | | | | |
| | 9/13/2017 | 99.50 | 5.91 | 93.59 | | | | | ND | ND | ND | ND | ND |
| | 12/11/2017 | 99.50 | 4.96 | 94.54 | | | | | ND | ND | ND | ND | ND |
| | 3/26/2018 | 99.50 | 4.71 | 94.79 | | | | | ND | ND | ND | ND | ND |
| | 3/26/2018 | 99.50 | 4.71 | 94.79 | | | | | ND | ND | ND | ND | ND |
| | 6/27/2018 | 99.50 | 5.53 | 93.97 | | | | | ND | ND | ND | ND | ND |
| | 9/19/2018 | 99.50 | 5.86 | 93.64 | | 214.00 | ND | 214.00 | ND | ND | ND | ND | ND |
| | 3/21/2019 | 99.50 | 4.84 | 94.66 | | ND | ND | ND | ND | ND | ND | ND | ND |
| | 9/17/2019 | 99.50 | 5.85 | 93.65 | | 63.30 | ND | 63.30 | ND | ND | ND | ND | ND |
| | 3/10/2020 | 99.50 | 4.89 | 94.61 | | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/14/2020 | 99.50 | 5.81 | 93.69 | | 212.00 | ND | 212.00 | ND | ND | ND | ND | ND |
| CW-02 | 1/10/1990 | 99.01 | 5.33 | 93.68 | | | | | | | | | |
| C 11 - U2 | 9/13/2017 | 99.01 99.01 | 5.53 5.64 | 93.36 | | | | | ND | ND | ND | ND | ND |
| | 12/11/2017 | 99.01 | 4.65 | 93.36 94.36 | | | | | ND ND | ND | ND | ND ND | ND |
| | 3/26/2018 | 99.01 | 4.39 | 94.62 | | | | | ND | ND | ND | ND | ND |
| | 6/27/2018 | 99.01 | 5.24 | 93.77 | | | | | ND | ND | ND | ND | ND |
| | 9/19/2018 | 99.01 | 5.56 | 93.45 | | ND | ND | ND | 50.60 | 10.60 | 16.60 | ND | ND |
| | 9/19/2018 | 99.01 | 5.56 | 93.45 | | ND | 188.00 | 188.00 | 56.80 | 9.94 | 15.90 | ND | ND |
| | 3/21/2019 | 99.01 | 4.53 | 94.48 | | ND | 261.00 | 261.00 | ND | ND | ND | ND | ND |
| | | | | | | | | | | | | | |
| | 2001 MTC | A Method | A Cleanup | | NE | | 500 | | 800 | 5 | 1000 | 700 | 1000 |
| | Levels f | for Ground | dwater | | 1412 | | 300 | | 000 | J | 1000 | 700 | 1000 |

| Well | Sampling | ERP | DTW | GWE | TPH | Diesel-range hydrocarbons | Heavy oil-range hydrocarbons | Combined Diesel-range and Heavy oil-range | NWTPH-Gx | В | T | Е | X |
|-------------------|---------------------------|----------------------|--------|--------|-------------|------------------------------|---------------------------------|---|-------------|------------|-------------|-------------|----------|
| ID | Date | (feet) | (feet) | (feet) | $(\mu g/L)$ | (μg/L) | (μg/L) | $(\mu g/L)$ | $(\mu g/L)$ | (µg/L) | $(\mu g/L)$ | $(\mu g/L)$ | (µg/L) |
| | | | | | | | | | | | | | |
| CW-02 | 9/17/2019 | 99.01 | 5.54 | 93.46 | | ND | ND | ND | ND | ND | ND | ND | ND |
| | 3/10/2020 | 99.01 | 5.20 | 93.81 | | ND | 255.00 | 255.00 | ND | ND | ND | ND | ND |
| | 10/14/2020 | 99.01 | 5.54 | 93.47 | | ND | 777.00 | 777.00 | 864.00 | 7.58 | 1.89 | 8.41 | 43.10 |
| | 10/14/2020 | 99.01 | 5.54 | 93.47 | | 4,570.00 | ND | 4570.00 | 818.00 | 7.45 | 1.89 | 8.26 | 42.20 |
| | 1/10/1990 | 100.00 | 5.59 | 94.41 | ND | | | | | ND | ND | ND | ND |
| De | ecommissione | а | | | | | | | | | | | |
| | 1/10/1990 ecommissione | 98.92 d | 4.51 | 94.41 | 2,460 | | | | | 1,643.0 | 409.00 | ND | 2955.00 |
| New | commissione | • | | | | | | | | | | | |
| Well | 10/14/2020 | 98.92 | 5.83 | 93.09 | | 249.00 | ND | 249.00 | 106.00 | ND | ND | ND | ND |
| Installed | 10/14/2020 | 70.7 <u>/</u> | 5.05 | 93.09 | | ∠ 4 7.00 | ND | 2 4 7.00 | 100.00 | ND | ND | ND | ND |
| MW-03 | 1/10/1990 | 98.56 | 5.77 | 92.79 | ND | | | | | ND | ND | ND | ND |
| 141 44 -03 | 9/13/2017 | 98.56 | 5.55 | 93.02 | ND | | | | 131.00 | ND ND | ND ND | ND ND | ND ND |
| | 12/11/2017 | 98.56 | 5.05 | 93.02 | | | | | ND | 1.65 | ND | ND ND | ND ND |
| | 12/11/2017 | 98.56 | 5.05 | 93.51 | | | | | ND ND | 1.60 | ND ND | ND ND | ND ND |
| | | | | | | | | | ND ND | 1.60 ND | | | |
| | 3/26/2018 | 98.56 | 4.44 | 94.12 | | | | | | | ND | ND | ND |
| | 6/27/2018 | 98.56 | 5.26 | 93.30 | | ND. | 172.00 | 172.00 | ND | ND | ND | ND | ND |
| | 9/19/2018 | 98.56 | 5.56 | 93.01 | | ND | 172.00 | 172.00 | ND | ND | ND | ND | ND |
| | 3/21/2019 | 98.56 | 4.80 | 93.76 | | 273 | ND | 273 | 202.00 | 24.40 | 32.00 | 1.10 | 16.54 |
| | 9/17/2019 | 98.56 | 5.55 | 93.01 | | ND | ND | ND | 67.30 | ND | ND | ND | ND |
| | 3/10/2020 | 98.56 | 5.57 | 92.99 | | ND | 122.00 | 122.00 | ND | ND | ND | ND | ND |
| | 10/14/2020 | 98.56 | 5.86 | 92.70 | | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-04 | 1/10/1990 | 98.27 | 4.06 | 94.21 | 3,050 | | | | | 118 | 23.00 | ND | 284.00 |
| | 9/13/2017 | 98.27 | 5.32 | 92.96 | | | | | 558.00 | 4.03 | ND | 1.51 | 1.46 |
| | 9/13/2017 | 98.27 | 5.32 | 92.96 | | | | | 547.00 | ND | ND | ND | ND |
| | 12/11/2017 | 98.27 | 4.13 | 94.17 | | | | | 702.00 | 6.81 | 1.07 | 9.07 | ND |
| | 3/26/2018 | 98.27 | 3.75 | 94.52 | | | | | 302.00 | 4.63 | 1.34 | 15.70 | ND |
| | 6/27/2018 | 98.27 | 4.80 | 93.47 | | | | | 284.00 | 5.84 | 1.32 | 16.60 | ND |
| | 9/19/2018 | 98.27 | 4.83 | 93.44 | | 1,450.00 | 2,080.00 | 3,530.00 | 644.00 | 7.25 | 2.61 | 25.80 | 2.72 |
| | 3/21/2019 | 98.27 | 3.60 | 94.67 | | 220.00 | 376.00 | 596.00 | 718.00 | 4.46 | 1.78 | 18.10 | 2.70 |
| | 9/17/2019 | 98.27 | 4.92 | 93.35 | | 181.00 | 310.00 | 491.00 | 780.00 | 5.09 | ND | 3.08 | 1.16 |
| | 3/10/2020 | 98.27 | 4.12 | 94.15 | | ND | 552.00 | 552.00 | 96.00 | ND | ND | 2.60 | ND |
| Lab | | | | | | | | | | | | | |
| Filtered New | 3/10/2020 | 98.27 | 4.12 | 94.15 | | ND | 602.00 | 602.00 | 80.10 | ND | ND | 2.61 | ND |
| Well Installed | 10/14/2020 | 98.27 | 4.80 | 93.47 | | 707.00 | ND | 707.00 | 818.00 | 10.50 | 1.19 | 9.92 | 1.91 |
| MW-06 | 1/10/1990 | 97.27 | 9.01 | 88.26 | ND | | | | | 9.00 | 5.00 | 15.00 | 80.00 |
| | 2001 MTCA Levels f | Method for Ground | _ | | NE | | 500 | | 800 | 5 | 1,000 | 700 | 1,000 |

| Well | Sampling | ERP | DTW | GWE | TPH | Diesel-range hydrocarbons | Heavy oil-range hydrocarbons | Combined Diesel-range and Heavy oil-range | NWTPH-Gx | В | T | Е | X |
|-----------------------------------|--|---|----------------------|-----------------------------|----------|------------------------------|--|---|--------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| ID | Date | (feet) | (feet) | (feet) | (µg/L) | (μg/L) | nydrocarbons (μg/L) | (μg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) |
| MW-06 | 9/13/2017 12/11/2017 3/26/2018 6/27/2018 9/19/2018 | 97.27 97.27 97.27 97.27 97.27 | 5.24 5.31 6.36 | 92.03 91.96 90.92 | | 102.00 | 369.00 | 471.00 | ND 404.00 101.00 119.00 | ND ND ND ND | ND ND ND ND | ND ND ND ND | ND ND ND ND |
| | 3/21/2019 9/17/2019 3/10/2020 | 97.27 97.27 97.27 97.27 | 5.08 4.95 4.51 | 92.19 92.32 92.76 | | ND ND ND | 409.00 1440.00 1580.00 | 409.00 1440.00 1580.00 | ND 90.20 ND | ND ND ND | ND ND ND | ND ND ND | ND ND ND ND |
| Lab Filtered New | 3/10/2020 | 97.27 | 4.51 | 92.76 | | ND | 1350.00 | 1350.00 | ND | ND | ND | ND | ND |
| well installed | 10/14/2020 | 97.27 | 9.65 | 87.62 | | 357.00 | ND | 357.00 | 202 | ND | ND | ND | ND I |
| MW-07 New well installed | 10/14/2020 | 95.27 | 8.72 | 86.55 | | 179.00 | ND | 179.00 | ND | ND | ND | ND | ND |
| | 2001 MTCA Method A Cleanup Levels for Groundwater | | | | NE | | 500 | | 800 | 5 | 1000 | 700 | 1000 |

Notes:

MTCA Method A exceedences shown in bold

Historic Data not collected by Fulcrum shown in italics

NE Not Established. Indvidual analyte thresholds for Total Petroleum Hydrocarbons (TPH) have not been established and

are referenced as the appropriate regulatory values above

TPH Total Petroleum Hydrocarbons

TD Total Boring Depth

Notes:

DS Depth Sampled

ERP Elevation of riser pipe based on an arbitrary datum of 100.00 feet

DTW Depth to water

GWE Groundwater elevation based on an arbitrary datum of 100.00 feet

NWTPHGx Northwest total petroleum hydrocarbons as gasoline;
BTEX Benzene, toluene, ethylbenzene and total xylenes

μg/L micrograms per liter or parts per billion

ND Not detected in concentrations exceeding laboratory method detection limit

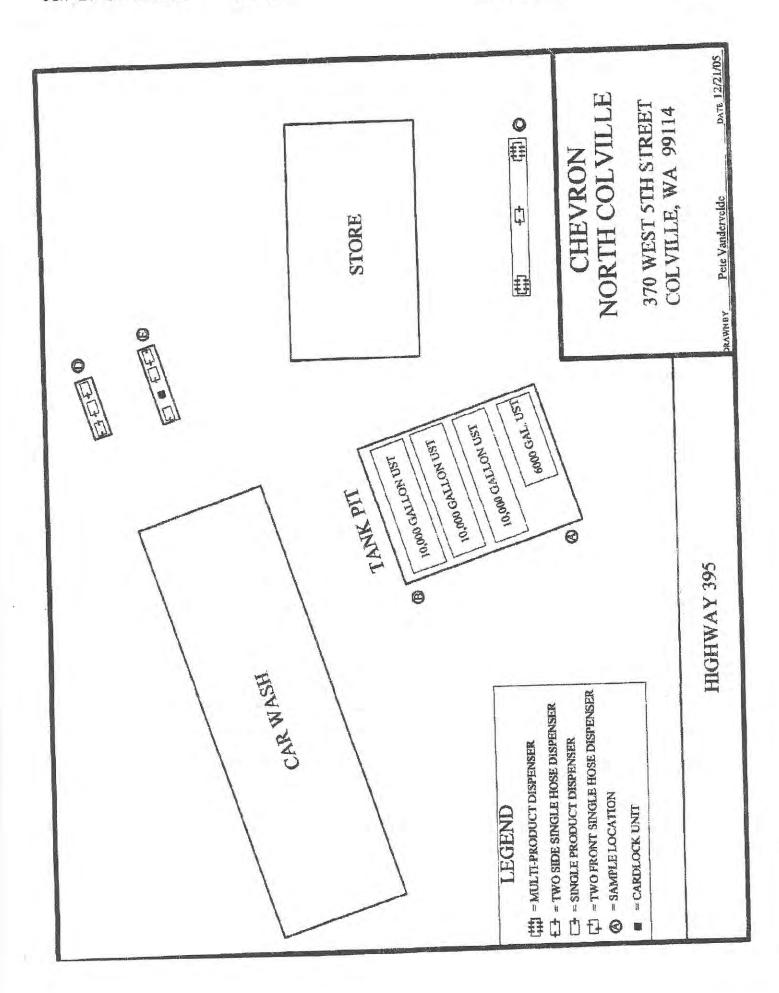
--- Not available, not tested, not measured



APPENDIX C

2005 Soil Sampling Results

Glendon



100 mg/kg OR 30mg/Kg

O.O3 may/Kg

O. I mg/kg 7.0 mg/Kg

6.0 mg/Lg

2000 mg/Kg 2000 mg/Kg

CLEANUP STANDARD

SOIL SAMPLE RESULTS TABLE 1

NORTH COLVILLE CHEVRON

| DEPTH OF SAMPLE ANALYSES | 15' | 14 2-B | 5; 2-C | 5. 2-D | 5. 2-E |
|-----------------------------|------|-----------|-----------|-----------|-----------|
| WTPH-OIL | <100 | <100 | <100 | <100 | <100 |
| WIPH-DIESEL | <10 | <10 | 01> | <10 | 01> |
| WTPH-GAS | 90 | 65.0 | <5.0 | <5.0 | <5.0 |

| DUNIZHME | <0.025 | - C0.025 | <0.025 | <0.025 <0.025 <0.025 | <0.025 |
|---------------|--------|-----------------------|--------|--------------------------|--------|
| ETHY! RENZENE | 0.12 | <0.025 | <0.025 | <0.025 | <0.025 |
| MTBF | <0.025 | 0.025 <0.025 <0.025 < | <0.025 | <0.025 | <0.025 |
| TOUTENE | 0.229 | <0.05 | 0.111 | 0.066 | <0.05 |
| XYLENE | 69.0 | 1 | 660.0 | 0.081 | <0.05 |

| <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
|--------|--------|--------|--------|--------|
| 0.12 | <0.025 | <0.025 | <0.025 | <0.025 |
| <0.025 | <0.025 | <0.025 | <0.025 | <0.05 |
| 0.229 | <0.05 | 0.111 | 0.066 | <0.05 |
| 69.0 | <0.05 | 660.0 | 0.081 | <0.05 |

| N/A |
|------------|
| N/A |
| NA |
| N/A |
| 13 |
| TOTAL LEAD |

250 mg/Kg

9.0 mg/kg

<1.25 ?= SAMPLE METHOD DETECTION LIMIT WAS DILUTED ABOVE CLEANUP STANDARD DUE TO HIGH CONCENTRATION OF OTHER ANALYTE DETECTED</p> TALICIZED RESULTS = ESTIMATED CONCENTRATION, RESULT IS ABOVE NORMAL CALIBRATION RANGE. FINAL RESULT IS MOST LIKELY HIGHER N/A = NOT ANALYZED (verifys analyte is below cleanup standards for highest NWTPH-G concentration reported) BOLDED RESULTS - ABOVE CLEANUP STANDARDS

CTRA Laboratories 2221 Rose Way * Tacome, WA 98421 * (253) 272-4850 * Pax (253) 572-9838 * www.spectra-lab.com

12/16/2005

Northwest Environmental Solutions, Inc.

PO Box 1583

Summer, WA 98390 Atm: rete vanderveide P.O.#:

Pd Ck #7160319036

Project:

Whitton Oil

Client ID:

Sample Matrix: Soil

Date Sampled:

12/08/2005

Date Received. 12/12/2005

Spectra Project: 2005120100

Spectra Number: 1

Rush

| Analyte | Kesult | Units | Method |
|--|--------|-------|-----------------|
| Diesel | ~1Ú | mg/Kg | NW ITH-D |
| Oil | <100 | mg/kg | MMINH-FI |
| Gasoline | 8 | mg/Kg | NWIPH-G |
| Benzene | <0.025 | mg/Kg | 2M240 8100R |
| Ethylbenzene | 0.12 | mg/Kg | 9 M 840 8 700 W |
| Methyl-ton-Butyl Ether | 44,025 | mg/Kg | 3 W 640 62000 |
| Toluene | 0.229 | 而以长星 | 5W846 62005 |
| Total Xylenes | 0.69 | mg/Kg | 5 W 840 8 20VD |
| A STATE OF THE STA | | | |

| Sunnear | Recovery | nonne ne |
|---------------------|----------|-------------|
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TRA Laboratories 2221 Ross Way * Tacrima, WA 98421 * (253) 272-4850 * Fax (253) 572-9838 * www.specira-lab.com

12/16/2005

Northwest Environmental Solutions, Inc.

PO Box 1583

Sumner, WA 98390 Attn: Pete Vandervelde P.O.#:

Pd Ck #7160319036

Project:

Whitton Oil

Client ID:

2-B

Sample Matrix: Soil

Date Sampled:

12/08/2005

Date Received:

12/12/2005

Spectra Project:

2005120166

Spectra Number: 2

Rush

| Analyte | Result | Units | Method |
|-------------------------|---------|-------|-------------|
| Diesel | <10 | mg/Kg | NWTPH-D |
| Oil | <100 | mg/Kg | NWTPH-D |
| Gasoline | <5 | mg/Kg | NWTPH-G |
| Benzene | < 0.025 | mg/Kg | SW846 8260B |
| Ethylbenzone | < 0.025 | mg/Kg | SW846 8260B |
| Methyl-tert-Butyl Ether | <0.025 | mg/Kg | SW846 8260B |
| | <0.05 | mg/Kg | SW846 8260B |
| Toluene | <0.05 | mg/Kg | SW846 8260B |
| Total Xylenes | | | |

| Survenie | Mesovery | Method |
|--------------------|----------|---------|
| | 118 | D-HTFWM |
| Tobalite-35 | 111 | NWTPH-Q |
| d.HmmmHututhenseue | 60 | AMJAH-D |
| p-Terphentyl | ** | |

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

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Page 2 of 5

SPECTRA Laboratories 2221 Ross Way • Tacoma, WA 98421 • (253) 272-485() • Fax (253) 572-9838 • www.spectra-lab.com

12/16/2005

Northwest Environmental Solutions, Inc.

PO Box 1583

Sumner, WA 98390 Attn: Pete Vandervelde P.O.#:

Pd Ck #7160319036

Project:

Whitton Oil

Client ID:

2-C

Sample Matrix: Date Sampled:

Soil 12/08/2005

Date Received:

12/12/2005

Spectra Project:

2005120166

Spectra Number: 3

Rush

| Analyte | Result | Units | Method |
|------------------------|---------|-----------|-------------|
| Diesel | <10 | mg/Kg | NWTPH-D |
| Oil | <100 | mg/Kg | NWTPH-D |
| Gasoline | <5 | mg/Kg | NWTPH-G |
| Benzene | < 0.025 | mg/Kg | SW846 8260B |
| Ethylbenzene | < 0.025 | mg/Kg | SW846 8260B |
| Methyl-ten-Butyl Ether | <0.025 | mg/Kg | SW846 8260B |
| Toluene | 0.111 | mg/Kg | SW846 8260B |
| Total Xylenes | 0.099 | mg/Kg | SW846 8260B |
| Triest velimines | | W. E. 124 | |

| Sucrogate | kecovery | Medicat |
|--|----------|---------|
| Second and a second as a secon | 111 | NWTPH-G |
| formularibuses | 114 | NWTPK-C |
| p-Tarphanyl | 62 | D-NALAN |

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

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Page 3 of 5

TRA Laboratories

2221 Ross Way * Tacoma, WA 98421 * (253) 272-4850 * Fax (253) 572-9838 * www.spectra-lab.com

12/16/2005

Northwest Environmental Solutions, Inc.

PO Box 1583

Summer, WA 98390 Attn: Pete Vandervelde P.O.#:

Pd Ck #7160319036

Project:

Whitton Oil

Client ID:

2-D

Sample Matrix: Soil

Date Sampled: 12/08/2005

Date Received: 12/12/2005

Spectra Project: 2005120166

Spectra Number: 4

Rush

| Analyte | Result | Units | Method | |
|-------------------------|----------------|-------|-------------|--|
| Diesel | <10 | mg/Kg | NWTPH-D | |
| Oil | <100 | mg/Kg | NWTPH-D | |
| Gasoline | < \$ | mg/Kg | NWTPH-G | |
| - | < 0.025 | mg/Kg | SW846 8260B | |
| Benzene | < 0.025 | mg/Kg | SW846 8260B | |
| Ethylbenzene | < 0.025 | mg/Kg | SW846 8260B | |
| Methyl-tert-Butyl Ether | 0.066 | mg/Kg | SW846 8260B | |
| Toluene | 0.081 | mg/Kg | SW846 8260B | |
| Total Xylenes | 0.001 | | | |

| Salvagnet | Hacovery | Merkrei |
|----------------------|----------|------------|
| | 116 | NWTHH-G |
| Tolsana de | | HWIPH-G |
| 4-Menmallmorebenzene | 112 | THE STREET |
| p-Terphanyl | 76 | NWTPH-D |

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

KOCKOCCTON 1081 1 1-11 10161 11 6667 A) A7A/1811

Page 4 of 5

RA Laboratories 2221 Ross Way * Tacoma, WA 98421 * (253) 272-4830 * Fax (253) 572-9838 * www.spectra-lab.com

12/16/2005

Jun 19 04 09:39a

Northwest Environmental Solutions, Inc

PO Box 1583

Summer, WA 98390

Attn: Pete Vandervelde

P.O.#:

Pd Ck #7160319036

Project:

Whitton Oil

Client ID:

2-E

Sample Matrix: Soil Date Sampled:

12/08/2005

2530500005

Date Received:

12/12/2005

Spectra Project: 2005120166

Spectra Number: 5

Rush

| Analyte | Result | Units | Method |
|-------------------------|---------|-------|-------------|
| Diesel | <10 | mg/Kg | NWTPH-D |
| | <100 | mg/Kg | NWTPH-D |
| Oil Gasoline | <5 | mg/Kg | NWTPH-G |
| Benzenc | < 0.025 | mg/Kg | SW846 8260B |
| Ethylbenzene | < 0.025 | mg/Kg | SW846 8260B |
| Methyl-tert-Butyl Ether | < 0.025 | mg/Kg | SW846 8260B |
| Toluene | <0.05 | mg/Kg | SW846 82608 |
| Total Xylenes | <0.05 | mg/Kg | SW846 8260B |
| Frier aplyarant. | | | |

| Surregalit | Reservery | Method |
|--|-----------|--|
| 100 to 10 | 112 | HWITHE |
| Tolugite-d% | 113 | NWTTW.0 |
| 4-Brown Novembersons | 71.0 | HWYPHAN |
| p-Terpheny! | 62 | 14.11.11.11.11.11.11.11.11.11.11.11.11.1 |

SPECTRA LABORATORIES

Steve Hithis, Laboratory Manager

Page 5 of 5



APPENDIX D

Resource Protection Well Decommissioning Reports



| Notice of Intent No AE 62980 FUL093020 |
|--|
| Type of Well: |
| Resource Protection Well Injection Point |
| Remediation Well Grounding Well |
| ☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump ☐ Environmental Boring ☐ Other |
| Soil- Vapor- Water-sampling |
| Property Owner Aditi Sood |
| Well Street Address 370 W 5th Ave |
| City Colville County Stevens |
| Tax Parcel No. 0070900 |
| |
| Location (see instructions): WWM SW 1/4-1/4 NW 1/4, Section 09 Town 35N Range 39E Latitude (Example: 47.12345) Longitude (Example: -120.12345) (WGS 84 Coordinate System) |
| Borehole diameter inches Casing diameter 2" inches |
| Static water level N/A ft below top of casing Date 9/30/20 3 |
| |
| ☐ Above-ground completion with bollards ☐ Flush monument |
| Stick-up of top of well casing ft above ground surface |
| Start Date 9/30/2020 Completed Date 9/30/2020 |
| |
| |



FUL093020 Resource Protection Well Report Notice of Intent No. RE20059 Submit one well report per well installed. See page two for instructions. Type of Well: Type of Work: Resource Protection Well Injection Point **X** Construction Grounding Well Remediation Well Ground Source Heat Pump ☐ Decommission ☐ Original NOI No. _ Geotechnical Soil Boring Environmental Boring Other Ecology Well ID Tag No. BMA 279 Soil- □ Vapor- □ Water-sampling Site Well Name NW-4 Property Owner Aditi Sood Consulting Firm Fulcrum Environmental Well Street Address 370 W 5th Ave Was a variance approved for this well/boring? ☐ Yes ☐ No County Stevens City Colville If yes, what was the variance for? Tax Parcel No. 0070900 Location (see instructions): WWM □ or EWM □ SW 1/4-1/4 NW 1/4, Section 09 Town 35N Range 39E WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Latitude (Example: 47.12345) Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief. Longitude (Example: -120.12345) _____ ■ Driller □ Trainee □ Engineer (WGS 84 Coordinate System) Name (Print Last, First Name) Johnson, Brent Borehole diameter 6" inches Casing diameter 2" inches Driller/Engineer/Trainee Signature __ Static water level 13 ft below top of casing Date 9/30/2020 License No. 3225 ☐ Above-ground completion with bollards ☐ Flush monument Company Name Environmental West Exploration Inc. Stick-up of top of well casing _____ ft above ground surface If trainee box is checked, sponsor's license number: Start Date 9/30/2020 Completed Date 9/30/2020 Sponsor's signature Well Data **Construction Design** Surface



| Resource Protection Well Report | Notice of Intent No. RE20059 FUL093020 |
|--|--|
| Submit one well report per well installed. See page two for instructions. | Type of Well: |
| Type of Work: Construction Decommission ⇒ Original NOI No. | Resource Protection Well Injection Point Remediation Well Grounding Well Geotechnical Soil Boring Ground Source Heat Pump |
| Ecology Well ID Tag No. BMA 281 | Environmental Boring Other |
| Site Well Name $-\frac{\omega}{7}$ | ☐ Soil- ☐ Vapor- ☐ Water-sampling |
| Consulting Firm Fulcrum Environmental | Property Owner Aditi Sood |
| Was a variance approved for this well/boring? ☐ Yes ☐ No | Well Street Address 370 W 5th Ave |
| If yes, what was the variance for? | City Colville County Stevens |
| | Tax Parcel No. 0070900 |
| | Location (see instructions): WWM □ or EWM □ |
| WELL CONSTRUCTION CERTIFICATION: I constructed and/or | SW 1/4-1/4 NW 1/4, Section 09 Town 35N Range 39E |
| accept responsibility for construction of this well, and its compliance with all | Latitude (Example: 47.12345) |
| Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief. | Longitude (Example: -120.12345) |
| ■ Driller □ Trainee □ Engineer | (WGS 84 Coordinate System) |
| Name (Print Last, First Name) Johnson, Brent | Borehole diameter 6" inches Casing diameter 7" inches |
| Driller/Engineer/Trainee Signature | Static water level $\frac{1}{3}$ ft below top of casing Date $\frac{9}{30}/202$ |
| License No. 3225 | |
| Company Name Environmental West Exploration Inc. | ☐ Above-ground completion with bollards 🛕 Flush monument |
| If trainee box is checked, sponsor's license number: | Stick-up of top of well casing ft above ground surface |
| Sponsor's signature | Start Date 9/30/2020 Completed Date 9/30/2020 |
| Construction Design | Well Data Driller's Log |
| Surface Load Surface Surface | Concrete Hount Concrete Hount Concrete Mount Concrete Mount |



| Resource Protection Well Rep | ort | Notice of Intent No. RE | 20059 FUL093020 | | | | | | |
|--|---------------------|--|--------------------------------------|--------|--|--|--|--|--|
| Submit one well report per well installed. See page two | o for instructions, | Type of Well: | | | | | | | |
| Type of Work: | | Resource Protection | | | | | | | |
| | | Remediation Well | Grounding Well | | | | | | |
| Ecology Well ID Tag No. BMA 230 | | Geotechnical Soil B Environmental Bori | · - | | | | | | |
| | | Soil- Vapor- | | | | | | | |
| Site Well Name MW-2 Consulting Firm Fulcrum Environmental | 10 | Property Owner Aditi So | | | | | | | |
| | | Well Street Address 370 | | | | | | | |
| Was a variance approved for this well/boring? | | City Colville | County Stevens | | | | | | |
| If yes, what was the variance for? | | * | | | | | | | |
| | | Tax Parcel No. 007090 | | | | | | | |
| 7 | | Location (see instruction | • | | | | | | |
| WELL CONSTRUCTION CERTIFICATION: I accept responsibility for construction of this well, and its con- | | | ection 09 Town 35N Range 39E | | | | | | |
| Washington well construction standards. Materials used and | | Latitude (Example: 47.1 | 2345) | | | | | | |
| reported are true to my best knowledge and belief. | | Longitude (Example: -1: | 20.12345) | | | | | | |
| ☐ Driller ☐ Trainee ☐ Engineer | | (WGS | 84 Coordinate System) | | | | | | |
| Name (Print Last, First Name) Johnson, Brent | | Borehole diameter 6" | _inches Casing diameter inches | | | | | | |
| Driller/Engineer/Trainee Signature License No. 3225 | | | ft below top of casing Date 9/30/20 | | | | | | |
| Company Name Environmental West Exploration | Inc. | ☐ Above-ground compl | etion with bollards 🛕 Flush monument | | | | | | |
| If trainee box is checked, sponsor's license numb | | Stick-up of top of well casing ft above ground surface | | | | | | | |
| Sponsor's signature | | | 20 Completed Date 9/30/2020 | | | | | | |
| | | Well Data | Driller's Log | \neg | | | | | |
| Construction Design | \ | | | | | | | | |
| Curfoso | 0 | Concrete Hount | | | | | | | |
| Surface | 1 | concish that | | | | | | | |
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| Resource Protection Well Report | Notice of Intent No. RE | 20059 | FUL093020 |
|---|---------------------------|-----------------------|----------------------|
| Submit one well report per well installed. See page two for instructions. | Type of Well: | | |
| Type of Work: | Resource Protection | Well Injection Po | oint |
| | Remediation Well | Grounding | |
| ☐ Decommission ⇒ Original NOI No. | Geotechnical Soil B | | urce Heat Pump |
| Ecology Well ID Tag No. BM A 278 | Environmental Bori | | |
| Site Well Name | Soil- □ Vapor- | ☐ Water-sampling | |
| Consulting Firm Fulcrum Environmental | Property Owner Aditi S | ood | |
| Was a variance approved for this well/boring? ☐ Yes ☐ No | Well Street Address 370 |) W 5th Ave | |
| If yes, what was the variance for? | City Colville | County Stevens | |
| | Tax Parcel No. 007090 | 0 | |
| | Location (see instruction | ns): WW | VM □ or EWM □ |
| WELL CONSTRUCTION CERTIFICATION: I constructed and/or | SW 1/4-1/4 NW 1/4, Se | ection 09 Town 351 | N_ Range <u>39E_</u> |
| accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information | Latitude (Example: 47.1 | _ | • |
| reported are true to my best knowledge and belief. | Longitude (Example: -1) | | |
| ■ Driller □ Trainee □ Engineer | | | |
| Name (Print Last, First Name) Johnson, Brent | | 84 Coordinate System) | |
| Driller/Engineer/Trainee Signature | Borehole diameter 6 | | 7.4 |
| License No. 3225 | | | Date 9/30/2020 |
| Company Name Environmental West Exploration Inc. | ☐ Above-ground compl | • | |
| If trainee box is checked, sponsor's license number: | Stick-up of top of w | | |
| Sponsor's signature | Start Date 9/30/200 | 👱 Completed Date 🧾 | 130/2020 |
| Surface Road Base The Clark | Loncrett 214 holepay | | |
| 30: | | | |



APPENDIX E

Waste Characterization Laboratory Analytical Results



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

Fulcrum Environmental Scott Groat 207 W Boone Ave. Spokane, WA 99201

RE: Whitten Oil

Work Order Number: 2010351

October 28, 2020

Attention Scott Groat:

Fremont Analytical, Inc. received 2 sample(s) on 10/22/2020 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Gasoline by NWTPH-Gx

Sample Moisture (Percent Moisture)

Volatile Organic Compounds by EPA Method 8260D

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

Date: 10/28/2020



CLIENT: Fulcrum Environmental Work Order Sample Summary

Project: Whitten Oil **Work Order:** 2010351

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|---------------------|---------------------|--------------------|
| 2010351-001 | W05-101420-SCOMP-01 | 10/21/2020 4:13 PM | 10/22/2020 9:30 AM |
| 2010351-002 | W05-101420-WCOMP-01 | 10/21/2020 4:03 PM | 10/22/2020 9:30 AM |



Case Narrative

WO#: **2010351**Date: **10/28/2020**

CLIENT: Fulcrum Environmental

Project: Whitten Oil

I. SAMPLE RECEIPT:

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

II. GENERAL REPORTING COMMENTS:

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

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

III. ANALYSES AND EXCEPTIONS:

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



Qualifiers & Acronyms

WO#: **2010351**

Date Reported: 10/28/2020

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: 2010351 Date Reported: 10/28/2020

Collection Date: 10/21/2020 4:13:00 PM Client: Fulcrum Environmental

Project: Whitten Oil

Lab ID: 2010351-001 Matrix: Soil

| nalyses | Result | RL | Qual | Units | DF | Da | ate Analyzed |
|--|--------------------------------------|--|--------------|--|------------------|--|--|
| Diesel and Heavy Oil by NWTPI | -d-Dx/Dx Ext. | | | Batch | ID: | 30162 | Analyst: IH |
| Diesel (Fuel Oil) | ND | 27.3 | | mg/Kg-dry | 1 | 10/2 | 7/2020 2:27:18 AM |
| Heavy Oil | ND | 68.2 | | mg/Kg-dry | 1 | 10/2 | 7/2020 2:27:18 AM |
| Surr: 2-Fluorobiphenyl | 78.5 | 50 - 150 | | %Rec | 1 | 10/2 | 7/2020 2:27:18 AM |
| Surr: o-Terphenyl | 68.6 | 50 - 150 | | %Rec | 1 | 10/2 | 7/2020 2:27:18 AM |
| Gasoline by NWTPH-Gx | | | | Batch | ID: | 30154 | Analyst: KT |
| Gasoline | ND | 5.94 | | mg/Kg-dry | 1 | 10/2 | 6/2020 10:31:36 AM |
| Gasoline Range Organics (C6-C12) | 35.5 | 5.94 | | mg/Kg-dry | 1 | 10/2 | 6/2020 10:31:36 AN |
| Surr: Toluene-d8 | 98.8 | 65 - 135 | | %Rec | 1 | 10/2 | 6/2020 10:31:36 AN |
| Surr: 4-Bromofluorobenzene | 103 | 65 - 135 | | %Rec | 1 | 10/2 | 6/2020 10:31:36 AN |
| NOTES: GRO - Indicates the presence of unresolv Volatile Organic Compounds by | · | | e to dodecan | , | ID: | 30154 | Analyst: KT |
| 3 | , | | | | | | · |
| | | | | | | 10/2 | 6/2020 10:31:36 AN |
| Benzene | ND | 0.0237 | | mg/Kg-dry | 1 | | |
| Toluene | ND | 0.0237 | | mg/Kg-dry | 1 1 | 10/2 | 6/2020 10:31:36 AN |
| Toluene Ethylbenzene | ND ND | 0.0237 0.0297 | | mg/Kg-dry mg/Kg-dry | | 10/2 10/2 | 6/2020 10:31:36 AN 6/2020 10:31:36 AN |
| Toluene Ethylbenzene m,p-Xylene | ND ND ND | 0.0237 0.0297 0.0594 | | mg/Kg-dry mg/Kg-dry mg/Kg-dry | 1 1 1 | 10/2 10/2 10/2 | 6/2020 10:31:36 AM 6/2020 10:31:36 AM 6/2020 10:31:36 AM |
| Toluene Ethylbenzene m,p-Xylene o-Xylene | ND ND ND ND | 0.0237 0.0297 0.0594 0.0297 | | mg/Kg-dry mg/Kg-dry mg/Kg-dry mg/Kg-dry | 1 1 1 1 | 10/2 10/2 10/2 10/2 | 6/2020 10:31:36 AM 6/2020 10:31:36 AM 6/2020 10:31:36 AM 6/2020 10:31:36 AM |
| Toluene Ethylbenzene m,p-Xylene o-Xylene Surr: Dibromofluoromethane | ND ND ND ND 98.5 | 0.0237 0.0297 0.0594 0.0297 85.2 - 113 | | mg/Kg-dry mg/Kg-dry mg/Kg-dry mg/Kg-dry %Rec | 1 1 1 | 10/2 10/2 10/2 10/2 10/2 | 6/2020 10:31:36 AM 6/2020 10:31:36 AM 6/2020 10:31:36 AM 6/2020 10:31:36 AM 6/2020 10:31:36 AM |
| Toluene Ethylbenzene m,p-Xylene o-Xylene Surr: Dibromofluoromethane Surr: Toluene-d8 | ND ND ND ND 98.5 97.0 | 0.0237 0.0297 0.0594 0.0297 85.2 - 113 88.5 - 110 | | mg/Kg-dry mg/Kg-dry mg/Kg-dry mg/Kg-dry %Rec %Rec | 1 1 1 1 | 10/2 10/2 10/2 10/2 10/2 | 6/2020 10:31:36 AM 6/2020 10:31:36 AM 6/2020 10:31:36 AM 6/2020 10:31:36 AM 6/2020 10:31:36 AM |
| Toluene Ethylbenzene m,p-Xylene o-Xylene Surr: Dibromofluoromethane | ND ND ND ND 98.5 | 0.0237 0.0297 0.0594 0.0297 85.2 - 113 | | mg/Kg-dry mg/Kg-dry mg/Kg-dry mg/Kg-dry %Rec | 1 1 1 1 | 10/2 10/2 10/2 10/2 10/2 10/2 | 6/2020 10:31:36 AN 6/2020 10:31:36 AN 6/2020 10:31:36 AN 6/2020 10:31:36 AN 6/2020 10:31:36 AN 6/2020 10:31:36 AN |

0.500

wt%

29.3

Percent Moisture

10/26/2020 11:15:51 AM



Analytical Report

Work Order: **2010351**Date Reported: **10/28/2020**

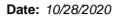
Client: Fulcrum Environmental Collection Date: 10/21/2020 4:03:00 PM

Project: Whitten Oil

Lab ID: 2010351-002 **Matrix:** Water

Client Sample ID: W05-101420-WCOMP-01

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------|--------------|------------|------|-------|-------|-----------------------|
| Diesel and Heavy Oil by NWTPI | H-Dx/Dx Ext. | | | Batc | h ID: | 30147 Analyst: IH |
| Diesel (Fuel Oil) | 89.2 | 48.9 | | μg/L | 1 | 10/26/2020 2:27:59 PM |
| Heavy Oil | ND | 97.8 | | μg/L | 1 | 10/26/2020 2:27:59 PM |
| Surr: 2-Fluorobiphenyl | 78.2 | 50 - 150 | | %Rec | 1 | 10/26/2020 2:27:59 PM |
| Surr: o-Terphenyl | 71.2 | 50 - 150 | | %Rec | 1 | 10/26/2020 2:27:59 PM |
| Gasoline by NWTPH-Gx | | | | Batc | h ID: | 30155 Analyst: KT |
| Gasoline | ND | 50.0 | | μg/L | 1 | 10/26/2020 5:08:39 PM |
| Surr: Toluene-d8 | 100 | 65 - 135 | | %Rec | 1 | 10/26/2020 5:08:39 PM |
| Surr: 4-Bromofluorobenzene | 99.7 | 65 - 135 | | %Rec | 1 | 10/26/2020 5:08:39 PM |
| Volatile Organic Compounds by | y EPA Method | 8260D | | Batc | h ID: | 30155 Analyst: KT |
| Benzene | ND | 1.00 | | μg/L | 1 | 10/26/2020 5:08:39 PM |
| Toluene | ND | 1.00 | | μg/L | 1 | 10/26/2020 5:08:39 PM |
| Ethylbenzene | ND | 1.00 | | μg/L | 1 | 10/26/2020 5:08:39 PM |
| m,p-Xylene | ND | 1.00 | | μg/L | 1 | 10/26/2020 5:08:39 PM |
| o-Xylene | ND | 1.00 | | μg/L | 1 | 10/26/2020 5:08:39 PM |
| Surr: Dibromofluoromethane | 104 | 84.8 - 113 | | %Rec | 1 | 10/26/2020 5:08:39 PM |
| Surr: Toluene-d8 | 106 | 88.5 - 110 | | %Rec | 1 | 10/26/2020 5:08:39 PM |
| Surr: 1-Bromo-4-fluorobenzene | 99.9 | 89.9 - 108 | | %Rec | 1 | 10/26/2020 5:08:39 PM |





QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

| Project: Whitten Oil | | | | | | | | Diesel | and Heavy | Oil by NW | TPH-Dx/I | Dx E |
|-----------------------------------|-----------|---------------|------|-----------|-------------|--------|--------------|--------------------|-------------|-------------------|----------|------|
| Sample ID: MB-30162 | SampTyp | e: MBLK | | | Units: mg/k | (g | Prep Dat | e: 10/26/2 | 2020 | RunNo: 628 | 371 | |
| Client ID: MBLKS | Batch ID: | 30162 | | | | | Analysis Dat | e: 10/26/2 | 2020 | SeqNo: 126 | 51974 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qua |
| Diesel (Fuel Oil) | | ND | 20.0 | | | | | | | | | |
| Heavy Oil | | ND | 50.0 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | | 18.7 | | 20.00 | | 93.7 | 50 | 150 | | | | |
| Surr: o-Terphenyl | | 16.2 | | 20.00 | | 81.1 | 50 | 150 | | | | |
| Sample ID: LCS-30162 | SampType | e: LCS | | | Units: mg/h | (g | Prep Dat | e: 10/26/ 2 | 2020 | RunNo: 628 | 371 | |
| Client ID: LCSS | Batch ID: | 30162 | | | | | Analysis Dat | e: 10/26/2 | 2020 | SeqNo: 126 | 1975 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qua |
| Diesel (Fuel Oil) | | 451 | 20.0 | 500.0 | 0 | 90.2 | 65 | 135 | | | | |
| Surr: 2-Fluorobiphenyl | | 19.3 | | 20.00 | | 96.6 | 50 | 150 | | | | |
| Surr: o-Terphenyl | | 18.6 | | 20.00 | | 93.1 | 50 | 150 | | | | |
| Sample ID: 2010318-002AMS | SampTyp | e: MS | | | Units: mg/h | (g-dry | Prep Dat | e: 10/26/2 | 2020 | RunNo: 628 | 371 | |
| Client ID: BATCH | Batch ID: | 30162 | | | | | Analysis Dat | e: 10/26/2 | 2020 | SeqNo: 126 | 1978 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qua |
| Diesel (Fuel Oil) | | 491 | 21.5 | 538.4 | 0 | 91.1 | 65 | 135 | | | | |
| Surr: 2-Fluorobiphenyl | | 23.1 | | 21.54 | | 107 | 50 | 150 | | | | |
| Surr: o-Terphenyl | | 21.8 | | 21.54 | | 101 | 50 | 150 | | | | |
| Sample ID: 2010318-002AMSD | SampTyp | e: MSD | | | Units: mg/h | (g-dry | Prep Dat | e: 10/26/2 | 2020 | RunNo: 628 | 371 | |
| Client ID: BATCH | Batch ID: | 30162 | | | | | Analysis Dat | e: 10/26/2 | 2020 | SeqNo: 126 | 1979 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qua |
| Diesel (Fuel Oil) | | 513 | 20.2 | 504.8 | 0 | 102 | 65 | 135 | 490.7 | 4.45 | 30 | |
| Surr: 2-Fluorobiphenyl | | 22.4 | | 20.19 | | 111 | 50 | 150 | | 0 | | |
| Surr: o-Terphenyl | | 22.2 | | 20.19 | | 110 | 50 | 150 | | 0 | | |

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Date: 10/28/2020



Work Order: 2010351

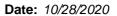
QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

| Project: Whitten | n Oil | | | | | | Diesel a | and Heavy | Oil by NW | TPH-Dx/I | Dx Ext. |
|---------------------------|------------------|------|-----------|-------------|-------|--------------|--------------------|-------------|-------------------|----------|---------|
| Sample ID: 2010350-002ADI | UP SampType: DUP | | | Units: mg/K | g-dry | Prep Dat | te: 10/26/2 | 020 | RunNo: 628 | 371 | |
| Client ID: BATCH | Batch ID: 30162 | | | | | Analysis Dat | te: 10/26/2 | 020 | SeqNo: 126 | 61983 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | ND | 17.3 | | | | | | 0 | | 30 | |
| Heavy Oil | ND | 43.3 | | | | | | 0 | | 30 | |
| Surr: 2-Fluorobiphenyl | 16.4 | | 17.31 | | 94.9 | 50 | 150 | | 0 | | |
| Surr: o-Terphenyl | 14.6 | | 17.31 | | 84.2 | 50 | 150 | | 0 | | |

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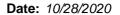
QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext

| Project: Whitten Oil | | | | | | | | Diesel | and Heavy | Oil by NW | TPH-Dx/I | Ox Ex |
|-----------------------------------|-----------|---------|------|-----------|-------------|------|--------------|--------------------|-------------|-------------------|----------|-------|
| Sample ID: MB-30147 | SampTyp | e: MBLK | | | Units: µg/L | | Prep Dat | e: 10/23/2 | 2020 | RunNo: 628 | 66 | |
| Client ID: MBLKW | Batch ID: | 30147 | | | | | Analysis Dat | e: 10/26/2 | 2020 | SeqNo: 126 | 1806 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | | ND | 49.4 | | | | | | | | | |
| Heavy Oil | | ND | 98.7 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | | 61.5 | | 79.00 | | 77.9 | 50 | 150 | | | | |
| Surr: o-Terphenyl | | 55.6 | | 79.00 | | 70.4 | 50 | 150 | | | | |
| Sample ID: LCS-30147 | SampTyp | e: LCS | | | Units: µg/L | | Prep Dat | e: 10/23/2 | 2020 | RunNo: 628 | 866 | |
| Client ID: LCSW | Batch ID: | 30147 | | | | | Analysis Dat | e: 10/26/2 | 2020 | SeqNo: 126 | 1807 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | | 734 | 49.7 | 994.0 | 0 | 73.9 | 52 | 107 | | | | |
| Surr: 2-Fluorobiphenyl | | 60.5 | | 79.52 | | 76.0 | 50 | 150 | | | | |
| Surr: o-Terphenyl | | 54.0 | | 79.52 | | 67.9 | 50 | 150 | | | | |
| Sample ID: 2010351-002AMS | SampTyp | pe: MS | | | Units: µg/L | | Prep Dat | e: 10/23/2 | 2020 | RunNo: 628 | 866 | |
| Client ID: W05-101420-WCOMP- | Batch ID: | 30147 | | | | | Analysis Dat | e: 10/26/2 | 2020 | SeqNo: 126 | 1810 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | | 826 | 49.0 | 979.9 | 89.21 | 75.2 | 23.6 | 130 | | | | |
| Surr: 2-Fluorobiphenyl | | 63.7 | | 78.39 | | 81.3 | 50 | 150 | | | | |
| Surr: o-Terphenyl | | 55.8 | | 78.39 | | 71.2 | 50 | 150 | | | | |
| Sample ID: 2010351-002AMSD | SampTyp | e: MSD | | | Units: µg/L | | Prep Dat | e: 10/23/2 | 2020 | RunNo: 628 | 866 | |
| Client ID: W05-101420-WCOMP- | Batch ID: | 30147 | | | | | Analysis Dat | te: 10/26/2 | 2020 | SeqNo: 126 | 1811 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | | 827 | 48.9 | 978.9 | 89.21 | 75.3 | 23.6 | 130 | 826.0 | 0.0736 | 30 | |
| Surr: 2-Fluorobiphenyl | | 60.0 | | 78.31 | | 76.6 | 50 | 150 | | 0 | | |
| Surr: o-Terphenyl | | 55.4 | | 78.31 | | 70.8 | 50 | 150 | | 0 | | |

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QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Gasoline by NWTPH-Gx

| Project: Whitten Oil | | | | | | | | | Gasoline | by NW I | PH-G |
|-----------------------------------|----------------------|------|-----------|---------------|------|---------------|------------|-------------|-------------------|----------|------|
| Sample ID: LCS-30154 | SampType: LCS | | | Units: mg/Kg | | Prep Date | : 10/26/20 |)20 | RunNo: 628 | 369 | |
| Client ID: LCSS | Batch ID: 30154 | | | | | Analysis Date | : 10/26/20 |)20 | SeqNo: 126 | 61882 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit H | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | 26.3 | 5.00 | 25.00 | 0 | 105 | 65 | 135 | | | | |
| Surr: Toluene-d8 | 1.24 | | 1.250 | | 99.5 | 65 | 135 | | | | |
| Surr: 4-Bromofluorobenzene | 1.30 | | 1.250 | | 104 | 65 | 135 | | | | |
| Sample ID: 2010304-009BDUP | SampType: DUP | | | Units: mg/Kg- | dry | Prep Date | : 10/26/20 |)20 | RunNo: 628 | 369 | |
| Client ID: BATCH | Batch ID: 30154 | | | | | Analysis Date | 10/26/20 | 020 | SeqNo: 126 | 31857 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit I | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | ND | 5.13 | | | | | | 0 | | 30 | |
| Surr: Toluene-d8 | 1.28 | | 1.282 | | 99.6 | 65 | 135 | | 0 | | |
| Surr: 4-Bromofluorobenzene | 1.29 | | 1.282 | | 101 | 65 | 135 | | 0 | | |
| Sample ID: 2010304-010BMS | SampType: MS | | | Units: mg/Kg- | dry | Prep Date | : 10/26/20 | 020 | RunNo: 628 | 369 | |
| Client ID: BATCH | Batch ID: 30154 | | | | | Analysis Date | 10/26/20 | 020 | SeqNo: 126 | 1859 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit I | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | 18.4 | 4.71 | 23.55 | 0 | 78.2 | 65 | 135 | | | | |
| Surr: Toluene-d8 | 1.16 | | 1.178 | | 98.6 | 65 | 135 | | | | |
| Surr: 4-Bromofluorobenzene | 1.17 | | 1.178 | | 99.5 | 65 | 135 | | | | |
| Sample ID: 2010304-010BMSD | SampType: MSD | | | Units: mg/Kg- | dry | Prep Date | : 10/26/20 | 020 | RunNo: 628 | 369 | |
| Client ID: BATCH | Batch ID: 30154 | | | | | Analysis Date | 10/26/20 | 020 | SeqNo: 126 | S1860 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit I | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | 21.6 | 4.71 | 23.55 | 0 | 91.6 | 65 | 135 | 18.41 | 15.9 | 30 | |
| Surr: Toluene-d8 | 1.18 | | 1.178 | | 99.9 | 65 | 135 | | 0 | | |
| Surr: 4-Bromofluorobenzene | 1.19 | | 1.178 | | 101 | 65 | 135 | | 0 | | |

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Date: 10/28/2020



Work Order: 2010351

Project:

QC SUMMARY REPORT

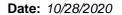
CLIENT: Fulcrum Environmental

Whitten Oil

Gasoline by NWTPH-Gx

| Sample ID: 2010413-001BDUP | SampType: DUP | | | Units: mg/K | g-dry | Prep Dat | te: 10/26/2 | 2020 | RunNo: 628 | 869 | |
|----------------------------|----------------------|------|-----------|-------------|-------|-------------|--------------------|-------------|-------------------|----------|------|
| Client ID: BATCH | Batch ID: 30154 | | | | | Analysis Da | te: 10/26/2 | 2020 | SeqNo: 126 | 61871 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | ND | 6.05 | | | | | | 0 | | 30 | |
| Surr: Toluene-d8 | 1.50 | | 1.513 | | 99.5 | 65 | 135 | | 0 | | |
| Surr: 4-Bromofluorobenzene | 1.51 | | 1.513 | | 99.9 | 65 | 135 | | 0 | | |

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QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Gasoline by NWTPH-Gx

| Project: Whitten Oil | | | | | | | | | Gasoline | by NW I | PH-G |
|-----------------------------------|-----------------------|------|-----------|-------------|------|---------------|---------------------|-------------|--------------------|----------|------|
| Sample ID: LCS-30155 | SampType: LCS | | | Units: µg/L | | Prep Date | e: 10/26/2 0 | 020 | RunNo: 628 | 392 | |
| Client ID: LCSW | Batch ID: 30155 | | | | | Analysis Date | e: 10/26/2 0 | 020 | SeqNo: 126 | 62380 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | 482 | 50.0 | 500.0 | 0 | 96.4 | 65 | 135 | | | | |
| Surr: Toluene-d8 | 25.1 | | 25.00 | | 100 | 65 | 135 | | | | |
| Surr: 4-Bromofluorobenzene | 25.1 | | 25.00 | | 101 | 65 | 135 | | | | |
| Sample ID: LCSD-30155 | SampType: LCSD | | | Units: µg/L | | Prep Date | e: 10/26/2 0 | 020 | RunNo: 628 | 392 | |
| Client ID: LCSW02 | Batch ID: 30155 | | | | | Analysis Date | e: 10/26/2 0 | 020 | SeqNo: 126 | 52381 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | 459 | 50.0 | 500.0 | 0 | 91.8 | 65 | 135 | 482.1 | 4.88 | 20 | |
| Surr: Toluene-d8 | 24.9 | | 25.00 | | 99.7 | 65 | 135 | | 0 | | |
| Surr: 4-Bromofluorobenzene | 25.3 | | 25.00 | | 101 | 65 | 135 | | 0 | | |
| Sample ID: MB-30155 | SampType: MBLK | | | Units: µg/L | | Prep Date | e: 10/26/2 0 | 020 | RunNo: 628 | 392 | |
| Client ID: MBLKW | Batch ID: 30155 | | | | | Analysis Date | e: 10/26/2 0 | 020 | SeqNo: 12 6 | 62382 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | ND | 50.0 | | | | | | | | | |
| Surr: Toluene-d8 | 25.1 | | 25.00 | | 100 | 65 | 135 | | | | |
| Surr: 4-Bromofluorobenzene | 25.2 | | 25.00 | | 101 | 65 | 135 | | | | |
| Sample ID: 2010348-001BDUP | SampType: DUP | | | Units: µg/L | | Prep Date | e: 10/26/2 0 | 020 | RunNo: 628 | 392 | |
| Client ID: BATCH | Batch ID: 30155 | | | | | Analysis Date | e: 10/26/2 0 | 020 | SeqNo: 12 6 | 62346 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | ND | 50.0 | | | | | | 0 | | 30 | |
| Surr: Toluene-d8 | 24.9 | | 25.00 | | 99.6 | 65 | 135 | | 0 | | |
| Surr: 4-Bromofluorobenzene | 25.3 | | 25.00 | | 101 | 65 | 135 | | 0 | | |

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Date: 10/28/2020



Work Order: 2010351

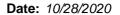
QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Gasoline by NWTPH-Gx

| Project: | Whitten Oil | | | | | | | | | Gasoline | by NWT | PH-Gx |
|--------------------|-------------|----------------------|------|-----------|-------------|------|-------------|--------------------|-------------|--------------------|----------|-------|
| Sample ID: 2010357 | '-005ADUP | SampType: DUP | | | Units: µg/L | | Prep Da | te: 10/26/2 | 020 | RunNo: 62 | 892 | |
| Client ID: BATCH | | Batch ID: 30155 | | | | | Analysis Da | ite: 10/26/2 | 2020 | SeqNo: 12 6 | 62358 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | | 929 | 50.0 | | | | | | 829.5 | 11.3 | 30 | |
| Surr: Toluene-d8 | | 25.2 | | 25.00 | | 101 | 65 | 135 | | 0 | | |
| Surr: 4-Bromofluoi | robenzene | 26.1 | | 25.00 | | 105 | 65 | 135 | | 0 | | |

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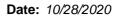
QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Volatile Organic Compounds by EPA Method 8260D

| Project: Whitten Oil | | | | | | volatile C | Organic Cor | npound | ds by EPA | Wethod | 82601 |
|----------------------------------|-----------------------|--------|-----------|---------------|------|---------------|---------------|---------|-------------------|----------|-------|
| Sample ID: LCS-30154 | SampType: LCS | | | Units: mg/Kg | | Prep Date | 10/26/2020 | | RunNo: 628 | 68 | |
| Client ID: LCSS | Batch ID: 30154 | | | | | Analysis Date | 10/26/2020 | | SeqNo: 126 | 1852 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit H | HighLimit RPD | Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 1.02 | 0.0200 | 1.000 | 0 | 102 | 79.4 | 116 | | | | |
| Toluene | 1.00 | 0.0200 | 1.000 | 0 | 100 | 80.5 | 115 | | | | |
| Ethylbenzene | 1.04 | 0.0250 | 1.000 | 0 | 104 | 81.6 | 116 | | | | |
| m,p-Xylene | 2.07 | 0.0500 | 2.000 | 0 | 104 | 83.2 | 115 | | | | |
| o-Xylene | 1.03 | 0.0250 | 1.000 | 0 | 103 | 82.5 | 114 | | | | |
| Surr: Dibromofluoromethane | 1.29 | | 1.250 | | 103 | 85.2 | 113 | | | | |
| Surr: Toluene-d8 | 1.24 | | 1.250 | | 99.4 | 88.5 | 110 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 1.31 | | 1.250 | | 104 | 88.6 | 109 | | | | |
| Sample ID: MB-30154 | SampType: MBLK | | | Units: mg/Kg | | Prep Date: | 10/26/2020 | | RunNo: 628 | 868 | |
| Client ID: MBLKS | Batch ID: 30154 | | | | | Analysis Date | 10/26/2020 | | SeqNo: 126 | 1853 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit H | HighLimit RPD | Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.0200 | | | | | | | | | |
| Toluene | ND | 0.0200 | | | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | | | |
| m,p-Xylene | ND | 0.0500 | | | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | | | |
| Surr: Dibromofluoromethane | 1.21 | | 1.250 | | 96.8 | 85.2 | 113 | | | | |
| Surr: Toluene-d8 | 1.22 | | 1.250 | | 97.9 | 88.5 | 110 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 1.22 | | 1.250 | | 98.0 | 88.6 | 109 | | | | |
| Sample ID: 2010351-001BMS | SampType: MS | | | Units: mg/Kg- | dry | Prep Date | 10/26/2020 | | RunNo: 628 | 868 | |
| Client ID: W05-101420-SCOMP-0 | 1 Batch ID: 30154 | | | | | Analysis Date | 10/26/2020 | | SeqNo: 126 | 1836 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit F | HighLimit RPD | Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 1.32 | 0.0237 | 1.187 | 0 | 111 | 74.6 | 126 | | | | |
| Toluene | 1.29 | 0.0237 | 1.187 | 0.006538 | 108 | 72.6 | 127 | | | | |
| | | 0.0297 | 1.187 | | | | 126 | | | | |

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QC SUMMARY REPORT

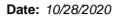
CLIENT: Fulcrum Environmental

| Project: Whitten Oi | il | | | | | Volatile | Organic | Compoun | ds by EPA | \ Method | 8260D |
|-------------------------------|----------------------|--------|-----------|-------------|--------|-------------|--------------------|-------------|-------------------|----------|-------|
| Sample ID: 2010351-001BMS | SampType: MS | | | Units: mg/ | Kg-dry | Prep Da | te: 10/26/2 | 020 | RunNo: 628 | 368 | |
| Client ID: W05-101420-SCOMF | P-01 Batch ID: 30154 | | | | | Analysis Da | te: 10/26/2 | 020 | SeqNo: 126 | 31836 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| m,p-Xylene | 2.62 | 0.0594 | 2.374 | 0 | 110 | 78.5 | 126 | | | | |
| o-Xylene | 1.31 | 0.0297 | 1.187 | 0 | 110 | 79.4 | 123 | | | | |
| Surr: Dibromofluoromethane | 1.54 | | 1.484 | | 104 | 85.2 | 113 | | | | |
| Surr: Toluene-d8 | 1.50 | | 1.484 | | 101 | 88.5 | 110 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 1.55 | | 1.484 | | 105 | 88.6 | 109 | | | | |
| Sample ID: 2010351-001BMSD | SampType: MSD | | | Units: mg/ | Kg-dry | Prep Da | te: 10/26/2 | 020 | RunNo: 628 | 368 | |

| Sample ID: 2010351-001BMSD | SampType: MSD | Units: mg/Kg-dry Pr | | | Prep Date: 10/26/2020 | | | RunNo: 628 | 868 | | |
|--------------------------------|-----------------|---------------------|-----------|-------------|-----------------------|-------------|--------------------|-------------------|-------------------|----------|------|
| Client ID: W05-101420-SCOMP-01 | Batch ID: 30154 | | | | | Analysis Da | te: 10/26/2 | 020 | SeqNo: 126 | 1837 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 1.25 | 0.0237 | 1.187 | 0 | 105 | 74.6 | 126 | 1.317 | 5.28 | 30 | |
| Toluene | 1.21 | 0.0237 | 1.187 | 0.006538 | 102 | 72.6 | 127 | 1.290 | 6.09 | 30 | |
| Ethylbenzene | 1.26 | 0.0297 | 1.187 | 0 | 106 | 77.3 | 126 | 1.305 | 3.64 | 30 | |
| m,p-Xylene | 2.52 | 0.0594 | 2.374 | 0 | 106 | 78.5 | 126 | 2.622 | 3.95 | 30 | |
| o-Xylene | 1.25 | 0.0297 | 1.187 | 0 | 105 | 79.4 | 123 | 1.311 | 4.60 | 30 | |
| Surr: Dibromofluoromethane | 1.52 | | 1.484 | | 103 | 85.2 | 113 | | 0 | | |
| Surr: Toluene-d8 | 1.46 | | 1.484 | | 98.2 | 88.5 | 110 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 1.54 | | 1.484 | | 104 | 88.6 | 109 | | 0 | | |

| Sample ID: 2010304-009BDUP | SampType: DUP | | | Units: mg/K | (g-dry | Prep Dat | te: 10/26/2 | 020 | RunNo: 628 | 368 | |
|----------------------------|----------------------|--------|-----------|-------------|--------|--------------|--------------------|-------------|-------------------|----------|------|
| Client ID: BATCH | Batch ID: 30154 | | | | | Analysis Dat | te: 10/26/2 | 2020 | SeqNo: 126 | 31839 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.0205 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.0205 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.0256 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.0513 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.0256 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 1.25 | | 1.282 | | 97.8 | 85.2 | 113 | | 0 | | |

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Project:

QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

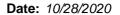
Whitten Oil

Volatile Organic Compounds by EPA Method 8260D

| Sample ID: 2010304-009BDUP | SampType: DUP | | | Units: mg/k | (g-dry | Prep Dat | te: 10/26/2 | 020 | RunNo: 628 | 868 | |
|-------------------------------|----------------------|----|-----------|-------------|--------|--------------|--------------------|-------------|--------------------|----------|------|
| Client ID: BATCH | Batch ID: 30154 | | | | | Analysis Dat | te: 10/26/2 | 2020 | SeqNo: 12 6 | 61839 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Toluene-d8 | 1.26 | | 1.282 | | 98.4 | 88.5 | 110 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 1.27 | | 1.282 | | 99.3 | 88.6 | 109 | | 0 | | |

| Sample ID: 2010413-001BDUP | SampType: DUP | | | Units: mg/ | Kg-dry | Prep Da | te: 10/26/2 | 2020 | RunNo: 628 | 368 | |
|-------------------------------|----------------------|--------|-----------|-------------|--------|-------------|--------------------|-------------|-------------------|----------|------|
| Client ID: BATCH | Batch ID: 30154 | | | | | Analysis Da | te: 10/26/2 | 2020 | SeqNo: 126 | 61841 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.0242 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.0242 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.0303 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.0605 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.0303 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 1.45 | | 1.513 | | 96.0 | 85.2 | 113 | | 0 | | |
| Surr: Toluene-d8 | 1.46 | | 1.513 | | 96.7 | 88.5 | 110 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 1.49 | | 1.513 | | 98.5 | 88.6 | 109 | | 0 | | |

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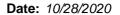
QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Volatile Organic Compounds by EPA Method 8260D

| Project: Whitten Oil | | | | | | Volatile (| Organic | Compoun | ds by EPA | Method | 8260E |
|-----------------------------------|----------------------|------|-----------|-------------|------|---------------|----------------------|-------------|-------------------|----------|-------|
| Sample ID: LCS-30155 | SampType: LCS | | | Units: µg/L | | Prep Date | e: 10/26/20 | 20 | RunNo: 628 | 90 | |
| Client ID: LCSW | Batch ID: 30155 | | | | | Analysis Date | e: 10/26/20 | 20 | SeqNo: 126 | 2311 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit / | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 22.0 | 1.00 | 20.00 | 0 | 110 | 80.5 | 126 | | | | |
| Toluene | 21.8 | 1.00 | 20.00 | 0 | 109 | 82.9 | 124 | | | | |
| Ethylbenzene | 21.0 | 1.00 | 20.00 | 0 | 105 | 85.3 | 123 | | | | |
| m,p-Xylene | 41.3 | 1.00 | 40.00 | 0 | 103 | 85.8 | 122 | | | | |
| o-Xylene | 20.4 | 1.00 | 20.00 | 0 | 102 | 85.4 | 121 | | | | |
| Surr: Dibromofluoromethane | 24.7 | | 25.00 | | 98.7 | 84.8 | 113 | | | | |
| Surr: Toluene-d8 | 26.7 | | 25.00 | | 107 | 88.5 | 110 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 25.4 | | 25.00 | | 102 | 89.9 | 108 | | | | |
| Sample ID: MB-30155 | SampType: MBLK | | | Units: µg/L | | Prep Date | e: 10/26/20 : | 20 | RunNo: 628 | 90 | |
| Client ID: MBLKW | Batch ID: 30155 | | | | | Analysis Date | e: 10/26/20 | 20 | SeqNo: 126 | 2312 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit / | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 1.00 | - | | | | | | - | | |
| Toluene | ND | 1.00 | | | | | | | | | |
| Ethylbenzene | ND | 1.00 | | | | | | | | | |
| m,p-Xylene | ND | 1.00 | | | | | | | | | |
| o-Xylene | ND | 1.00 | | | | | | | | | |
| Surr: Dibromofluoromethane | 26.1 | | 25.00 | | 105 | 84.8 | 113 | | | | |
| Surr: Toluene-d8 | 26.3 | | 25.00 | | 105 | 88.5 | 110 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 25.3 | | 25.00 | | 101 | 89.9 | 108 | | | | |
| Sample ID: 2010348-001BDUP | SampType: DUP | | | Units: µg/L | | Prep Date | e: 10/26/20 | 20 | RunNo: 628 | 90 | |
| Client ID: BATCH | Batch ID: 30155 | | | | | Analysis Date | e: 10/26/20 | 20 | SeqNo: 126 | 2275 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit ! | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 1.00 | | | | | | 0 | | 30 | |
| Toluene | ND | 1.00 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 1.00 | | | | | | 0 | | 30 | |

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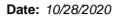


QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

| Project: Fulcrum Envil | ronmental | | | | | Volatile | Organio | Compoun | ds by EPA | Method | 8260[|
|-----------------------------------|----------------------|------|-----------|-------------|------|---------------|-------------------|-------------|-------------------|----------|-------|
| Sample ID: 2010348-001BDUP | SampType: DUP | | | Units: µg/L | | Prep Date | e: 10/26/2 | 2020 | RunNo: 628 | 390 | |
| Client ID: BATCH | Batch ID: 30155 | | | | | Analysis Date | e: 10/26/2 | 2020 | SeqNo: 126 | S2275 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| m,p-Xylene | ND | 1.00 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 1.00 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 26.8 | | 25.00 | | 107 | 84.8 | 113 | | 0 | | |
| Surr: Toluene-d8 | 26.2 | | 25.00 | | 105 | 88.5 | 110 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 25.3 | | 25.00 | | 101 | 89.9 | 108 | | 0 | | |
| Sample ID: 2010357-005ADUP | SampType: DUP | | | Units: µg/L | | Prep Date | e: 10/26/2 | 2020 | RunNo: 628 | 390 | |
| Client ID: BATCH | Batch ID: 30155 | | | | | Analysis Date | e: 10/26/2 | 2020 | SeqNo: 126 | 62289 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 2.16 | 1.00 | | | | | | 2.089 | 3.16 | 30 | |
| Toluene | ND | 1.00 | | | | | | 0 | | 30 | |
| Ethylbenzene | 8.79 | 1.00 | | | | | | 7.138 | 20.8 | 30 | |
| m,p-Xylene | ND | 1.00 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 1.00 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 27.1 | | 25.00 | | 108 | 84.8 | 113 | | 0 | | |
| Surr: Toluene-d8 | 26.0 | | 25.00 | | 104 | 88.5 | 110 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 25.1 | | 25.00 | | 100 | 89.9 | 108 | | 0 | | |
| Sample ID: 2010351-002BMS | SampType: MS | | | Units: µg/L | | Prep Date | e: 10/26/2 | 2020 | RunNo: 628 | 390 | |
| Client ID: W05-101420-WCOMP-0 | Batch ID: 30155 | | | | | Analysis Date | e: 10/26/2 | 2020 | SeqNo: 126 | 62277 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 23.5 | 1.00 | 20.00 | 0 | 118 | 80.5 | 126 | | | | |
| Toluene | 23.3 | 1.00 | 20.00 | 0 | 116 | 82.9 | 124 | | | | |
| Ethylbenzene | 22.3 | 1.00 | 20.00 | 0 | 112 | 85.3 | 123 | | | | |
| m,p-Xylene | 43.6 | 1.00 | 40.00 | 0 | 109 | 85.8 | 122 | | | | |
| o-Xylene | 21.4 | 1.00 | 20.00 | 0 | 107 | 85.4 | 121 | | | | |
| Surr: Dibromofluoromethane | 27.0 | | 25.00 | | 108 | 84.8 | 113 | | | | |

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QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Volatile Organic Compounds by EPA Method 8260D

| Project: | Whitten Oil | | | | | | | Volatile | Organic | Compoun | ds by EPA | A Method | 8260D |
|-------------------|----------------|-----------|--------|----|-----------|-------------|------|-------------|---------------------|-------------|-------------------|----------|-------|
| Sample ID: 201035 | 51-002BMS | SampType | MS | | | Units: µg/L | | Prep Da | te: 10/26/ 2 | 2020 | RunNo: 628 | 890 | |
| Client ID: W05-1 | 01420-WCOMP-0 | Batch ID: | 30155 | | | | | Analysis Da | te: 10/26/2 | 2020 | SeqNo: 126 | 62277 | |
| Analyte | | F | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Toluene-d8 | 8 | | 26.6 | | 25.00 | | 106 | 88.5 | 110 | | | | |
| Surr: 1-Bromo-4 | -fluorobenzene | | 25.5 | | 25.00 | | 102 | 89.9 | 108 | | | | |

| Sample ID: 2010351-002BMSD | SampType: MSD | | | Units: µg/L | | Prep Dat | te: 10/26/2 | 020 | RunNo: 628 | 390 | |
|-------------------------------|-----------------|------|-----------|-------------|------|--------------|--------------------|-------------|-------------------|----------|------|
| Client ID: W05-101420-WCOMP-0 | Batch ID: 30155 | | | | | Analysis Dat | te: 10/26/2 | 020 | SeqNo: 126 | 62278 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 23.5 | 1.00 | 20.00 | 0 | 117 | 80.5 | 126 | 23.54 | 0.344 | 30 | |
| Toluene | 23.2 | 1.00 | 20.00 | 0 | 116 | 82.9 | 124 | 23.30 | 0.461 | 30 | |
| Ethylbenzene | 22.5 | 1.00 | 20.00 | 0 | 113 | 85.3 | 123 | 22.33 | 0.764 | 30 | |
| m,p-Xylene | 44.4 | 1.00 | 40.00 | 0 | 111 | 85.8 | 122 | 43.57 | 1.97 | 30 | |
| o-Xylene | 22.0 | 1.00 | 20.00 | 0 | 110 | 85.4 | 121 | 21.40 | 2.72 | 30 | |
| Surr: Dibromofluoromethane | 26.5 | | 25.00 | | 106 | 84.8 | 113 | | 0 | | |
| Surr: Toluene-d8 | 26.1 | | 25.00 | | 105 | 88.5 | 110 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 25.7 | | 25.00 | | 103 | 89.9 | 108 | | 0 | | |

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Sample Log-In Check List

| С | lient Name: | FES | Work Order Numb | er: 2010351 | |
|-------------|-----------------|--|-----------------|--------------------|-----------------------|
| Lo | ogged by: | Gabrielle Coeuille | Date Received: | 10/22/2020 | 0 9:30:00 AM |
| Cha | in of Custo | <u>ody</u> | | | |
| 1. | Is Chain of Co | ustody complete? | Yes 🗹 | No \square | Not Present |
| 2. | How was the | sample delivered? | <u>FedEx</u> | | |
| <u>Log</u> | ln . | | | | |
| _ | Coolers are p | resent? | Yes 🗸 | No 🗌 | NA \square |
| 4. | Shipping cont | tainer/cooler in good condition? | Yes 🗸 | No 🗌 | |
| | Custody Seal | s present on shipping container/cooler? Iments for Custody Seals not intact) | Yes | No \square | Not Present ✓ |
| 6. | • | npt made to cool the samples? | Yes 🗸 | No \square | NA \square |
| 7. | Were all item | s received at a temperature of >2°C to 6°C * | Yes 🔽 | No 🗌 | NA \square |
| 8. | Sample(s) in | proper container(s)? | Yes 🗸 | No 🗆 | |
| 9. | Sufficient san | nple volume for indicated test(s)? | Yes 🗹 | No \square | |
| 10. | Are samples | properly preserved? | Yes 🗹 | No 🗌 | |
| 11. | Was preserva | ative added to bottles? | Yes | No 🗸 | NA 🗌 |
| 12. | Is there head | space in the VOA vials? | Yes | No 🗹 | na 🗆 |
| 13. | Did all sample | es containers arrive in good condition(unbroken)? | Yes 🗹 | No \square | |
| 14. | Does paperw | ork match bottle labels? | Yes 🗸 | No 🗌 | |
| 15. | Are matrices | correctly identified on Chain of Custody? | Yes 🗸 | No 🗌 | |
| 16. | Is it clear wha | at analyses were requested? | Yes 🗸 | No 🗌 | |
| 17. | Were all hold | ing times able to be met? | Yes 🗸 | No 🗌 | |
| <u>Spe</u> | cial Handli | ing (if applicable) | | | |
| 18. | Was client no | otified of all discrepancies with this order? | Yes | No \square | NA 🗸 |
| | Person I | Notified: Date | : | | |
| | By Who | m: Via: | eMail Pho | ne 🗌 Fax [| In Person |
| | Regardi | ng: | | | |
| | Client In | structions: | | | |
| 19. | Additional ren | narks: | | | |
| <u>ltem</u> | Information | | | | |
| | | Item # Temp °C | | | |

Sample 1

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

| 3600 Fremont Ave N. | Chain of Custody Record & Lab | Laboratory Services Agreement |
|--|--|--|
| Fremont Seattle, WA 98103 Tel: 206-352-3790 | | |
| Analytical Fax: 206-352-7178 | chites oil | Special Remarks: |
| Client: FULCIUM ENVIONMENT | | ne 2- |
| Address: 20 2 W. Bore fusice | S | Par |
| e, ZD: Spokere WA | LOCATION: Columbe MA | |
| 509-459- | Report To (PM): Scall Grand | Sample Disposal: Return to client. Bisposal by lab (after 30 days) |
| | Mas Oct. | |
| | | |
| Sample Name Sample Sample Sample Name (Matrix)* | [30] 30 [30] 30] 30] 30] 30] 30] 30] 30] | Comments |
| WOS-101420-ScOWP-01 | × - | |
| M 80% 10-10-0400M-01 10-1003 M | X | |
| w. | | |
| 4 | | |
| UT. | | |
| 0 | | |
| 7 | | |
| 00 | | |
| 9 | | |
| 10 | | |
| ous, B=Bulk, Q=Other, P=Product, S=Soi | Water, DW = Drinking Water, GW = Ground Water, | = Storm Water, WW = Wast |
| **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individ | Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb | Sb Se Sr Sn Ti Ti U V Zn Standard |
| ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide | de O-Phosphate Fluoride Nitrate+Nitrite | |
| I represent that I am authorized to enter into this Agreement wit each of the terms on the front and backside of this Agreement. | I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Clie nt na med above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement. | I have verified Client's agreement to 3 Day |
| | Received A Date/Time | 1, 2/20 60 09 50 Next Day |
| Date | | Sa |
| 100 0 100 100 100 100 100 100 100 100 1 | , CAL, | Salite Day |

COCT2-22217

www.fremontanalytical.com

Page 1 0/2



APPENDIX F

Waste Disposal Receipts



Original Ticket# 628584 ruplial

Ph: (509)244-0151

Container

Billing# 0000726

Driver Check#

Grid

Customer Name ABLECLEAN ABLE CLEAN-UP Carrier ABLECLEANUP ABLE CLEANUP TECHNOLOGIE Ticket Date 12/16/2020 Vehicle# ALLAN

Ticket Date 12/16/2020 Payment Type Credit Account

Manual Ticket# Route

Hauling Ticket#

Destination

Manifest 109512WA

Profile 109512WA (LF01 - Drill Cuttings Geo Tech (WM012A))
Generator WA-ABLE CLEANUP TECHNOLOGIES ABLE CLEANUP TECHNOLOGIES

20427 FUCRUM

| | Time 12/16/2020 12/16/2020 | | | Operator ashield2 ashield2 | Inbound | Gross Tare Net Tons | 19380 17160 2220 | 1b | |
|--|----------------------------------|--|--|----------------------------|---------|------------------------------|------------------------|----|--|
|--|----------------------------------|--|--|----------------------------|---------|------------------------------|------------------------|----|--|

Comments

| Pro | duct | LD% | Qty | MOU | Rate | Tax/Fee | Amount Origin |
|-----|---|-----|-----|------|---------------|---------|-----------------------------------|
| 1 2 | Spwaste Solid Oth-Tons- SRHD1-Spokane Regional | 100 | | Tons | 34.50 0.32 | 1.80 | \$50.00 SPOKANE \$0.36 SPOKANE |

Total Tax/Fees Total Ticket

\$1.81 \$52.17

Driver's Signature

18 H. Allen

The total amount includes fees and taxes that may not all be listed on this ticket due to technic limitation.



Original Ticket# 628594

ALLEN PHILLIPS

ABLECLEANUP ABLE CLEANUP TECHNOLOGIE

Ph: (509)244-0151

Container Driver

Carrier ABLECT Vehicle# ALLEN

Billing# 0000726

Customer Name ABLECLEAN ABLE CLEAN-UP Carrier

Ticket Date 12/16/2020 Payment Type Credit Account

Manual Ticket#

Route Hauling Ticket#

Destination

Manifest 110586WA Profile 110586WA (LF01 Non Haz Solidified Purge Water)

Ash-Allen

Generator WA-ABLE CLEANUP TECH 18838 ABLE CLEANUP TECHNOLOGIES INC_5308 N MYRTLE ST,

Check#

Grid

20427 Fulcrum Enviros

15920 lb Operator Inbound Gross Scale ashield2 Tare 14940 lb In 12/16/2020 11:23:32 Scale1 Out 12/16/2020 11:31:17 Scale1 980 lb ashield2 Net 0.49 Tons

Comments

| Prod | duct | LD% | Qty | UOM | Rate | Tax/Fee | Amount Origin |
|------|---|-----|------|--------------|---------------|---------|-----------------------------------|
| 1 2 | Spwaste Solid Oth-Tons- SRHD1-Spokane Regional | 100 | 7.75 | Tons Tons | 34.51 0.32 | 1.80 | \$50.00 SPOKANE \$0.16 SPOKANE |

\$1.80 Total Tax/Fees \$51.96 Total Ticket

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technic limitation.



APPENDIX G

Groundwater Sampling Laboratory Analytical Results



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

Fulcrum Environmental Scott Groat 207 W Boone Ave. Spokane, WA 99201

RE: Whitten Oil GW

Work Order Number: 2010271

October 23, 2020

Attention Scott Groat:

Fremont Analytical, Inc. received 8 sample(s) on 10/16/2020 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Gasoline by NWTPH-Gx

Volatile Organic Compounds by EPA Method 8260D

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 CC: Amanda Biondi Travis Trent

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

Date: 10/23/2020



CLIENT: Fulcrum Environmental Work Order Sample Summary

Project: Whitten Oil GW

Work Order: 2010271

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|---------------------|
| 2010271-001 | WOS-101420-CW02 | 10/14/2020 7:03 AM | 10/16/2020 10:25 AM |
| 2010271-002 | WOS-101420-MW04 | 10/14/2020 10:39 AM | 10/16/2020 10:25 AM |
| 2010271-003 | WOS-101420-CW01 | 10/14/2020 11:03 AM | 10/16/2020 10:25 AM |
| 2010271-004 | WOS-101420-MW03 | 10/14/2020 1:22 PM | 10/16/2020 10:25 AM |
| 2010271-005 | WOS-101420-MW06 | 10/14/2020 1:35 PM | 10/16/2020 10:25 AM |
| 2010271-006 | WOS-101420-MW02 | 10/14/2020 2:42 PM | 10/16/2020 10:25 AM |
| 2010271-007 | WOS-101420-MW07 | 10/14/2020 3:03 PM | 10/16/2020 10:25 AM |
| 2010271-008 | WOS-101420-MW08 | 10/14/2020 4:30 PM | 10/16/2020 10:25 AM |

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



Case Narrative

WO#: **2010271**Date: **10/23/2020**

CLIENT: Fulcrum Environmental

Project: Whitten Oil GW

I. SAMPLE RECEIPT:

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

II. GENERAL REPORTING COMMENTS:

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

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

III. ANALYSES AND EXCEPTIONS:

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



Qualifiers & Acronyms

WO#: **2010271**

Date Reported: 10/23/2020

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



Work Order: **2010271**Date Reported: **10/23/2020**

Client: Fulcrum Environmental Collection Date: 10/14/2020 7:03:00 AM

Project: Whitten Oil GW

Lab ID: 2010271-001 Matrix: Groundwater

Client Sample ID: WOS-101420-CW02

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------|------------|----------|------|-------|-----------|-----------------------|
| Diesel and Heavy Oil by NWTPH- | Dx/Dx Ext. | | | Bato | h ID: 300 | 094 Analyst: DW |
| Diesel (Fuel Oil) | ND | 49.4 | | μg/L | 1 | 10/22/2020 4:34:34 PM |
| Diesel Range Organics (C12-C24) | 777 | 49.4 | | μg/L | 1 | 10/22/2020 4:34:34 PM |
| Heavy Oil | ND | 98.8 | | μg/L | 1 | 10/22/2020 4:34:34 PM |
| Surr: 2-Fluorobiphenyl | 107 | 50 - 150 | | %Rec | 1 | 10/22/2020 4:34:34 PM |
| Surr: o-Terphenyl | 82.6 | 50 - 150 | | %Rec | 1 | 10/22/2020 4:34:34 PM |

NOTES:

DRO - Indicates the presence of unresolved compounds eluting from dodecane through tetracosane (~C12-C24). Chromatographic pattern resembles a continuation of the gasoline detection not quantified under NWTPH-Gx method.

| Gasoline by NWTPH-Gx | | | Batcl | h ID: | 30059 Analyst: CR |
|---------------------------------|------------|------------|-------|-------|-----------------------|
| Gasoline | 864 | 50.0 | μg/L | 1 | 10/19/2020 1:45:31 PM |
| Surr: Toluene-d8 | 100 | 65 - 135 | %Rec | 1 | 10/19/2020 1:45:31 PM |
| Surr: 4-Bromofluorobenzene | 103 | 65 - 135 | %Rec | 1 | 10/19/2020 1:45:31 PM |
| Volatile Organic Compounds by I | EPA Method | 8260D | Batcl | h ID: | 30059 Analyst: CR |
| Benzene | 7.58 | 1.00 | μg/L | 1 | 10/19/2020 1:45:31 PM |
| Toluene | 1.89 | 1.00 | μg/L | 1 | 10/19/2020 1:45:31 PM |
| Ethylbenzene | 8.41 | 1.00 | μg/L | 1 | 10/19/2020 1:45:31 PM |
| m,p-Xylene | 19.2 | 1.00 | μg/L | 1 | 10/19/2020 1:45:31 PM |
| o-Xylene | 23.9 | 1.00 | μg/L | 1 | 10/19/2020 1:45:31 PM |
| Surr: Dibromofluoromethane | 106 | 84.8 - 113 | %Rec | 1 | 10/19/2020 1:45:31 PM |
| Surr: Toluene-d8 | 101 | 88.5 - 110 | %Rec | 1 | 10/19/2020 1:45:31 PM |
| Surr: 1-Bromo-4-fluorobenzene | 101 | 89.9 - 108 | %Rec | 1 | 10/19/2020 1:45:31 PM |



Work Order: **2010271**Date Reported: **10/23/2020**

Client: Fulcrum Environmental Collection Date: 10/14/2020 10:39:00 AM

Project: Whitten Oil GW

Lab ID: 2010271-002 Matrix: Groundwater

Client Sample ID: WOS-101420-MW04

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------|-------------|----------|------|-------|-----------|-----------------------|
| Diesel and Heavy Oil by NWTPH | -Dx/Dx Ext. | | | Batc | h ID: 300 | 094 Analyst: DW |
| Diesel (Fuel Oil) | ND | 49.8 | | μg/L | 1 | 10/22/2020 5:04:18 PM |
| Diesel Range Organics (C12-C24) | 707 | 49.8 | | μg/L | 1 | 10/22/2020 5:04:18 PM |
| Heavy Oil | ND | 99.5 | | μg/L | 1 | 10/22/2020 5:04:18 PM |
| Surr: 2-Fluorobiphenyl | 114 | 50 - 150 | | %Rec | 1 | 10/22/2020 5:04:18 PM |
| Surr: o-Terphenyl | 77.5 | 50 - 150 | | %Rec | 1 | 10/22/2020 5:04:18 PM |
| | | | | | | |

NOTES:

DRO - Indicates the presence of unresolved compounds eluting from dodecane through tetracosane (~C12-C24).

Chromatographic pattern resembles a continuation of the gasoline detection not quantified under NWTPH-Gx method, as well as diesel-range material.

| Gasoline by NWTPH-Gx | | | Batc | h ID: 3 | 0059 Analyst: CR |
|-------------------------------|------------|------------|------|---------|-----------------------|
| Gasoline | 818 | 50.0 | μg/L | 1 | 10/19/2020 2:15:42 PM |
| Surr: Toluene-d8 | 102 | 65 - 135 | %Rec | 1 | 10/19/2020 2:15:42 PM |
| Surr: 4-Bromofluorobenzene | 103 | 65 - 135 | %Rec | 1 | 10/19/2020 2:15:42 PM |
| Volatile Organic Compounds by | EPA Method | 8260D | Batc | h ID: 3 | 0059 Analyst: CR |
| Benzene | 10.5 | 1.00 | μg/L | 1 | 10/19/2020 2:15:42 PM |
| Toluene | 1.19 | 1.00 | μg/L | 1 | 10/19/2020 2:15:42 PM |
| Ethylbenzene | 9.92 | 1.00 | μg/L | 1 | 10/19/2020 2:15:42 PM |
| m,p-Xylene | 1.91 | 1.00 | μg/L | 1 | 10/19/2020 2:15:42 PM |
| o-Xylene | ND | 1.00 | μg/L | 1 | 10/19/2020 2:15:42 PM |
| Surr: Dibromofluoromethane | 100 | 84.8 - 113 | %Rec | 1 | 10/19/2020 2:15:42 PM |
| Surr: Toluene-d8 | 98.1 | 88.5 - 110 | %Rec | 1 | 10/19/2020 2:15:42 PM |
| Surr: 1-Bromo-4-fluorobenzene | 99.1 | 89.9 - 108 | %Rec | 1 | 10/19/2020 2:15:42 PM |



Work Order: **2010271**Date Reported: **10/23/2020**

Client: Fulcrum Environmental Collection Date: 10/14/2020 11:03:00 AM

Project: Whitten Oil GW

Lab ID: 2010271-003 Matrix: Groundwater

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|------------------|------------------|-------|-------|-------|-----------------------|
| Diesel and Heavy Oil by NWTPH | -Dx/Dx Ext. | | | Bato | h ID: | 30094 Analyst: DW |
| Diesel (Fuel Oil) | ND | 49.7 | | μg/L | 1 | 10/22/2020 5:34:05 PM |
| Diesel Range Organics (C12-C24) | 212 | 49.7 | | μg/L | 1 | 10/22/2020 5:34:05 PM |
| Heavy Oil | ND | 99.4 | | μg/L | 1 | 10/22/2020 5:34:05 PM |
| Surr: 2-Fluorobiphenyl | 99.0 | 50 - 150 | | %Rec | 1 | 10/22/2020 5:34:05 PM |
| Surr: o-Terphenyl | 80.3 | 50 - 150 | | %Rec | 1 | 10/22/2020 5:34:05 PM |
| NOTES: | | | | | | |
| Diesel Range Organics - Indicates unres | solved compounds | in the Diesel ra | ange. | | | |
| Gasoline by NWTPH-Gx | | | | Bato | h ID: | 30059 Analyst: CR |
| Gasoline | ND | 50.0 | | μg/L | 1 | 10/19/2020 2:45:54 PM |
| Surr: Toluene-d8 | 99.9 | 65 - 135 | | %Rec | 1 | 10/19/2020 2:45:54 PM |
| Surr: 4-Bromofluorobenzene | 101 | 65 - 135 | | %Rec | 1 | 10/19/2020 2:45:54 PM |
| Volatile Organic Compounds by | EPA Method | 8260D | | Bato | h ID: | 30059 Analyst: CR |
| Benzene | ND | 1.00 | | μg/L | 1 | 10/19/2020 2:45:54 PM |
| Toluene | ND | 1.00 | | μg/L | 1 | 10/19/2020 2:45:54 PM |
| Ethylbenzene | ND | 1.00 | | μg/L | 1 | 10/19/2020 2:45:54 PM |
| m,p-Xylene | ND | 1.00 | | μg/L | 1 | 10/19/2020 2:45:54 PM |
| o-Xylene | ND | 1.00 | | μg/L | 1 | 10/19/2020 2:45:54 PM |
| Surr: Dibromofluoromethane | 107 | 84.8 - 113 | | %Rec | 1 | 10/19/2020 2:45:54 PM |
| Surr: Toluene-d8 | 100 | 88.5 - 110 | | %Rec | 1 | 10/19/2020 2:45:54 PM |
| Surr: 1-Bromo-4-fluorobenzene | 99.9 | 89.9 - 108 | | %Rec | 1 | 10/19/2020 2:45:54 PM |



Work Order: **2010271**Date Reported: **10/23/2020**

Client: Fulcrum Environmental Collection Date: 10/14/2020 1:22:00 PM

Project: Whitten Oil GW

Lab ID: 2010271-004 Matrix: Groundwater

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------|-------------|------------|------|-------|-------|-----------------------|
| Diesel and Heavy Oil by NWTPH | -Dx/Dx Ext. | | | Bato | h ID: | 30094 Analyst: DW |
| Diesel (Fuel Oil) | ND | 50.0 | | μg/L | 1 | 10/22/2020 6:03:51 PM |
| Heavy Oil | ND | 100 | | μg/L | 1 | 10/22/2020 6:03:51 PM |
| Surr: 2-Fluorobiphenyl | 97.1 | 50 - 150 | | %Rec | 1 | 10/22/2020 6:03:51 PM |
| Surr: o-Terphenyl | 84.4 | 50 - 150 | | %Rec | 1 | 10/22/2020 6:03:51 PM |
| Gasoline by NWTPH-Gx | | | | Bato | h ID: | 30059 Analyst: CR |
| Gasoline | ND | 50.0 | | μg/L | 1 | 10/19/2020 3:16:06 PM |
| Surr: Toluene-d8 | 99.2 | 65 - 135 | | %Rec | 1 | 10/19/2020 3:16:06 PM |
| Surr: 4-Bromofluorobenzene | 100 | 65 - 135 | | %Rec | 1 | 10/19/2020 3:16:06 PM |
| Volatile Organic Compounds by | EPA Method | 8260D | | Bato | h ID: | 30059 Analyst: CR |
| Benzene | ND | 1.00 | | μg/L | 1 | 10/19/2020 3:16:06 PM |
| Toluene | ND | 1.00 | | μg/L | 1 | 10/19/2020 3:16:06 PM |
| Ethylbenzene | ND | 1.00 | | μg/L | 1 | 10/19/2020 3:16:06 PM |
| m,p-Xylene | ND | 1.00 | | μg/L | 1 | 10/19/2020 3:16:06 PM |
| o-Xylene | ND | 1.00 | | μg/L | 1 | 10/19/2020 3:16:06 PM |
| Surr: Dibromofluoromethane | 105 | 84.8 - 113 | | %Rec | 1 | 10/19/2020 3:16:06 PM |
| Surr: Toluene-d8 | 102 | 88.5 - 110 | | %Rec | 1 | 10/19/2020 3:16:06 PM |
| Surr: 1-Bromo-4-fluorobenzene | 99.3 | 89.9 - 108 | | %Rec | 1 | 10/19/2020 3:16:06 PM |



Work Order: **2010271**Date Reported: **10/23/2020**

Client: Fulcrum Environmental Collection Date: 10/14/2020 1:35:00 PM

Project: Whitten Oil GW

Lab ID: 2010271-005 Matrix: Groundwater

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|------------------|------------------|-------|-------|-------|-----------------------|
| Diesel and Heavy Oil by NWTPH | -Dx/Dx Ext. | | | Bato | h ID: | 30094 Analyst: DW |
| Diesel (Fuel Oil) | ND | 49.6 | | μg/L | 1 | 10/22/2020 6:33:35 PM |
| Diesel Range Organics (C12-C24) | 357 | 49.6 | | μg/L | 1 | 10/22/2020 6:33:35 PM |
| Heavy Oil | ND | 99.3 | | μg/L | 1 | 10/22/2020 6:33:35 PM |
| Surr: 2-Fluorobiphenyl | 103 | 50 - 150 | | %Rec | 1 | 10/22/2020 6:33:35 PM |
| Surr: o-Terphenyl | 84.0 | 50 - 150 | | %Rec | 1 | 10/22/2020 6:33:35 PM |
| NOTES: Diesel Range Organics - Indicates unres | solved compounds | in the Diesel ra | ange. | | | |
| Gasoline by NWTPH-Gx | | | | Bato | h ID: | 30059 Analyst: CR |
| Gasoline | 202 | 50.0 | | μg/L | 1 | 10/19/2020 3:46:13 PM |
| Surr: Toluene-d8 | 99.5 | 65 - 135 | | %Rec | 1 | 10/19/2020 3:46:13 PM |
| Surr: 4-Bromofluorobenzene | 101 | 65 - 135 | | %Rec | 1 | 10/19/2020 3:46:13 PM |
| Volatile Organic Compounds by | EPA Method | 8260D | | Bato | h ID: | 30059 Analyst: CR |
| Benzene | ND | 1.00 | | μg/L | 1 | 10/19/2020 3:46:13 PM |
| Toluene | ND | 1.00 | | μg/L | 1 | 10/19/2020 3:46:13 PM |
| Ethylbenzene | ND | 1.00 | | μg/L | 1 | 10/19/2020 3:46:13 PM |
| m,p-Xylene | ND | 1.00 | | μg/L | 1 | 10/19/2020 3:46:13 PM |
| o-Xylene | ND | 1.00 | | μg/L | 1 | 10/19/2020 3:46:13 PM |
| Surr: Dibromofluoromethane | 103 | 84.8 - 113 | | %Rec | 1 | 10/19/2020 3:46:13 PM |
| Surr: Toluene-d8 | 102 | 88.5 - 110 | | %Rec | 1 | 10/19/2020 3:46:13 PM |
| Surr: 1-Bromo-4-fluorobenzene | 99.0 | 89.9 - 108 | | %Rec | 1 | 10/19/2020 3:46:13 PM |



Work Order: **2010271**Date Reported: **10/23/2020**

Client: Fulcrum Environmental Collection Date: 10/14/2020 2:42:00 PM

Project: Whitten Oil GW

Lab ID: 2010271-006 Matrix: Groundwater

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|------------------|------------------|-------|-------|-------|-----------------------|
| Diesel and Heavy Oil by NWTPH | -Dx/Dx Ext. | | | Bato | h ID: | 30094 Analyst: DW |
| Diesel (Fuel Oil) | ND | 49.9 | | μg/L | 1 | 10/22/2020 7:03:16 PM |
| Diesel Range Organics (C12-C24) | 249 | 49.9 | | μg/L | 1 | 10/22/2020 7:03:16 PM |
| Heavy Oil | ND | 99.9 | | μg/L | 1 | 10/22/2020 7:03:16 PM |
| Surr: 2-Fluorobiphenyl | 103 | 50 - 150 | | %Rec | 1 | 10/22/2020 7:03:16 PM |
| Surr: o-Terphenyl | 84.0 | 50 - 150 | | %Rec | 1 | 10/22/2020 7:03:16 PM |
| NOTES: | | | | | | |
| Diesel Range Organics - Indicates unres | solved compounds | in the Diesel ra | ange. | | | |
| Gasoline by NWTPH-Gx | | | | Bato | h ID: | 30059 Analyst: CR |
| Gasoline | 106 | 50.0 | | μg/L | 1 | 10/19/2020 4:16:31 PM |
| Surr: Toluene-d8 | 99.7 | 65 - 135 | | %Rec | 1 | 10/19/2020 4:16:31 PM |
| Surr: 4-Bromofluorobenzene | 100 | 65 - 135 | | %Rec | 1 | 10/19/2020 4:16:31 PM |
| Volatile Organic Compounds by | EPA Method | 8260D | | Bato | h ID: | 30059 Analyst: CR |
| Benzene | ND | 1.00 | | μg/L | 1 | 10/19/2020 4:16:31 PM |
| Toluene | ND | 1.00 | | μg/L | 1 | 10/19/2020 4:16:31 PM |
| Ethylbenzene | ND | 1.00 | | μg/L | 1 | 10/19/2020 4:16:31 PM |
| m,p-Xylene | ND | 1.00 | | μg/L | 1 | 10/19/2020 4:16:31 PM |
| o-Xylene | ND | 1.00 | | μg/L | 1 | 10/19/2020 4:16:31 PM |
| Surr: Dibromofluoromethane | 103 | 84.8 - 113 | | %Rec | 1 | 10/19/2020 4:16:31 PM |
| Surr: Toluene-d8 | 102 | 88.5 - 110 | | %Rec | 1 | 10/19/2020 4:16:31 PM |
| Surr: 1-Bromo-4-fluorobenzene | 98.7 | 89.9 - 108 | | %Rec | 1 | 10/19/2020 4:16:31 PM |



Work Order: **2010271**Date Reported: **10/23/2020**

Client: Fulcrum Environmental Collection Date: 10/14/2020 3:03:00 PM

Project: Whitten Oil GW

Lab ID: 2010271-007 Matrix: Groundwater

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|------------------|------------------|-------|-------|-------|-----------------------|
| Diesel and Heavy Oil by NWTPH | -Dx/Dx Ext. | | | Bato | h ID: | 30094 Analyst: DW |
| Diesel (Fuel Oil) | ND | 49.5 | | μg/L | 1 | 10/22/2020 7:32:57 PM |
| Diesel Range Organics (C12-C24) | 179 | 49.5 | | μg/L | 1 | 10/22/2020 7:32:57 PM |
| Heavy Oil | ND | 98.9 | | μg/L | 1 | 10/22/2020 7:32:57 PM |
| Surr: 2-Fluorobiphenyl | 85.6 | 50 - 150 | | %Rec | 1 | 10/22/2020 7:32:57 PM |
| Surr: o-Terphenyl | 68.8 | 50 - 150 | | %Rec | 1 | 10/22/2020 7:32:57 PM |
| NOTES: Diesel Range Organics - Indicates unres | solved compounds | in the Diesel ra | ange. | | | |
| Gasoline by NWTPH-Gx | | | | Bato | h ID: | 30059 Analyst: CR |
| Gasoline | ND | 50.0 | | μg/L | 1 | 10/19/2020 4:46:45 PM |
| Surr: Toluene-d8 | 99.0 | 65 - 135 | | %Rec | 1 | 10/19/2020 4:46:45 PM |
| Surr: 4-Bromofluorobenzene | 101 | 65 - 135 | | %Rec | 1 | 10/19/2020 4:46:45 PM |
| Volatile Organic Compounds by | EPA Method | 8260D | | Bato | h ID: | 30059 Analyst: CR |
| Benzene | ND | 1.00 | | μg/L | 1 | 10/19/2020 4:46:45 PM |
| Toluene | ND | 1.00 | | μg/L | 1 | 10/19/2020 4:46:45 PM |
| Ethylbenzene | ND | 1.00 | | μg/L | 1 | 10/19/2020 4:46:45 PM |
| m,p-Xylene | ND | 1.00 | | μg/L | 1 | 10/19/2020 4:46:45 PM |
| o-Xylene | ND | 1.00 | | μg/L | 1 | 10/19/2020 4:46:45 PM |
| Surr: Dibromofluoromethane | 105 | 84.8 - 113 | | %Rec | 1 | 10/19/2020 4:46:45 PM |
| Surr: Toluene-d8 | 101 | 88.5 - 110 | | %Rec | 1 | 10/19/2020 4:46:45 PM |
| Surr: 1-Bromo-4-fluorobenzene | 99.1 | 89.9 - 108 | | %Rec | 1 | 10/19/2020 4:46:45 PM |



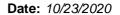
Work Order: **2010271**Date Reported: **10/23/2020**

Client: Fulcrum Environmental Collection Date: 10/14/2020 4:30:00 PM

Project: Whitten Oil GW

Lab ID: 2010271-008 Matrix: Groundwater

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | |
|-------------------------------|-------------|------------|------|-------|-------|----------------------|----|
| Diesel and Heavy Oil by NWTPH | -Dx/Dx Ext. | | | Bato | h ID: | 30094 Analyst: DW | ٧ |
| Diesel (Fuel Oil) | 4,570 | 49.6 | | μg/L | 1 | 10/22/2020 8:02:41 P | М |
| Heavy Oil | ND | 99.1 | | μg/L | 1 | 10/22/2020 8:02:41 P | М |
| Surr: 2-Fluorobiphenyl | 105 | 50 - 150 | | %Rec | 1 | 10/22/2020 8:02:41 P | М |
| Surr: o-Terphenyl | 94.5 | 50 - 150 | | %Rec | 1 | 10/22/2020 8:02:41 P | М |
| Gasoline by NWTPH-Gx | | | | Bato | h ID: | 30059 Analyst: CR | Į. |
| Gasoline | 818 | 50.0 | | μg/L | 1 | 10/19/2020 5:16:53 P | М |
| Surr: Toluene-d8 | 99.8 | 65 - 135 | | %Rec | 1 | 10/19/2020 5:16:53 P | М |
| Surr: 4-Bromofluorobenzene | 103 | 65 - 135 | | %Rec | 1 | 10/19/2020 5:16:53 P | М |
| Volatile Organic Compounds by | EPA Method | 8260D | | Bato | h ID: | 30059 Analyst: CR | Ľ |
| Benzene | 7.45 | 1.00 | | μg/L | 1 | 10/19/2020 5:16:53 P | М |
| Toluene | 1.89 | 1.00 | | μg/L | 1 | 10/19/2020 5:16:53 P | M |
| Ethylbenzene | 8.26 | 1.00 | | μg/L | 1 | 10/19/2020 5:16:53 P | М |
| m,p-Xylene | 18.8 | 1.00 | | μg/L | 1 | 10/19/2020 5:16:53 P | М |
| o-Xylene | 23.4 | 1.00 | | μg/L | 1 | 10/19/2020 5:16:53 P | М |
| Surr: Dibromofluoromethane | 105 | 84.8 - 113 | | %Rec | 1 | 10/19/2020 5:16:53 P | M |
| Surr: Toluene-d8 | 101 | 88.5 - 110 | | %Rec | 1 | 10/19/2020 5:16:53 P | М |
| Surr: 1-Bromo-4-fluorobenzene | 101 | 89.9 - 108 | | %Rec | 1 | 10/19/2020 5:16:53 P | М |





Work Order: 2010271

QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

| Project: Whitten Oil | I GW | | | | | | Diesel | and Heavy | Oil by NW | TPH-Dx/I | Ox Ext |
|---------------------------|-----------------------|------|-----------|-------------|------|-------------|--------------------|-------------|------------|----------|--------|
| Sample ID: MB-30094 | SampType: MBLK | | | Units: µg/L | | Prep Dat | te: 10/20/2 | 2020 | RunNo: 627 | 775 | |
| Client ID: MBLKW | Batch ID: 30094 | | | | | Analysis Da | te: 10/22/2 | 2020 | SeqNo: 125 | 59786 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | ND | 49.9 | | | | | | | | | |
| Heavy Oil | ND | 99.8 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 77.7 | | 79.83 | | 97.3 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 65.3 | | 79.83 | | 81.8 | 50 | 150 | | | | |
| Sample ID: LCS-30094 | SampType: LCS | | | Units: µg/L | | Prep Dat | te: 10/20/2 | 2020 | RunNo: 627 | 775 | |
| Client ID: LCSW | Batch ID: 30094 | | | | | Analysis Da | te: 10/22/2 | 2020 | SeqNo: 125 | 59787 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | 625 | 49.4 | 988.6 | 0 | 63.2 | 52 | 107 | | | | |
| Surr: 2-Fluorobiphenyl | 85.6 | | 79.09 | | 108 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 65.9 | | 79.09 | | 83.3 | 50 | 150 | | | | |
| Sample ID: LCSD-30094 | SampType: LCSD | | | Units: µg/L | | Prep Dat | te: 10/20/2 | 2020 | RunNo: 627 | 775 | |
| Client ID: LCSW02 | Batch ID: 30094 | | | | | Analysis Da | te: 10/22/2 | 2020 | SeqNo: 125 | 59788 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | 655 | 49.8 | 996.0 | 0 | 65.7 | 52 | 107 | 624.6 | 4.73 | 30 | |
| Surr: 2-Fluorobiphenyl | 81.5 | | 79.68 | | 102 | 50 | 150 | | 0 | | |
| Surr: o-Terphenyl | 61.4 | | 79.68 | | 77.1 | 50 | 150 | | 0 | | |
| Sample ID: 2010244-001AMS | SampType: MS | | | Units: µg/L | | Prep Dat | te: 10/20/2 | 2020 | RunNo: 627 | 775 | |
| Client ID: BATCH | Batch ID: 30094 | | | | | Analysis Da | te: 10/22/2 | 2020 | SeqNo: 125 | 59791 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | 547 | 49.8 | 996.5 | 0 | 54.9 | 23.6 | 130 | | | | |
| Surr: 2-Fluorobiphenyl | 79.3 | | 79.72 | | 99.5 | 50 | 150 | | | | |
| Surr: o-Terphenyl | 35.5 | | 79.72 | | 44.6 | 50 | 150 | | | | S |

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Date: 10/23/2020



Work Order: 2010271

QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Whitten Oil GW

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2010244-001AMS

SampType: MS

Prep Date: 10/20/2020

RunNo: 62775

Result

Units: µg/L

Analysis Date: 10/22/2020

SeqNo: 1259791

Client ID: BATCH

Batch ID: 30094

SPK value SPK Ref Val

%REC LowLimit HighLimit RPD Ref Val

%RPD RPDLimit Qual

NOTES:

Analyte

Project:

S - Outlying surrogate recovery(ies) observed.

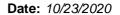
| Sample ID: 2010245-001ADUP | SampType: DUP | | | Units: µg/L | | Prep Da | te: 10/20/2 | 020 | RunNo: 627 | 75 | |
|----------------------------|----------------------|------|-----------|-------------|------|-------------|--------------------|-------------|-------------------|----------|------|
| Client ID: BATCH | Batch ID: 30094 | | | | | Analysis Da | te: 10/22/2 | 020 | SeqNo: 125 | 9792 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel (Fuel Oil) | ND | 49.5 | | | | | | 0 | | 30 | |
| Heavy Oil | 1,430 | 99.0 | | | | | | 1,356 | 5.52 | 30 | |
| Surr: 2-Fluorobiphenyl | 65.1 | | 79.20 | | 82.2 | 50 | 150 | | 0 | | |
| Surr: o-Terphenyl | 23.5 | | 79.20 | | 29.6 | 50 | 150 | | 0 | | S |

NOTES:

RL

Page 14 of 21 Original

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





Work Order: 2010271

QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Gasoline by NWTPH-Gx

| Project: Whitten Oil | GW | | | | | | | | Gasoline | by NWT | PH-G |
|-----------------------------------|-----------------------|------|-----------|-------------|------|---------------|-------------------|-------------|-------------------|----------|------|
| Sample ID: LCS-30059 | SampType: LCS | | | Units: µg/L | | Prep Date | e: 10/19/2 | 020 | RunNo: 626 | 78 | |
| Client ID: LCSW | Batch ID: 30059 | | | | | Analysis Date | e: 10/19/2 | 020 | SeqNo: 125 | 7681 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | 478 | 50.0 | 500.0 | 0 | 95.6 | 65 | 135 | | | | |
| Surr: Toluene-d8 | 24.8 | | 25.00 | | 99.3 | 65 | 135 | | | | |
| Surr: 4-Bromofluorobenzene | 25.1 | | 25.00 | | 100 | 65 | 135 | | | | |
| Sample ID: LCSD-30059 | SampType: LCSD | | | Units: µg/L | | Prep Date | e: 10/19/2 | 020 | RunNo: 626 | 78 | |
| Client ID: LCSW02 | Batch ID: 30059 | | | | | Analysis Date | e: 10/19/2 | 020 | SeqNo: 125 | 7682 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | 457 | 50.0 | 500.0 | 0 | 91.4 | 65 | 135 | 478.0 | 4.51 | 20 | |
| Surr: Toluene-d8 | 25.1 | | 25.00 | | 100 | 65 | 135 | | 0 | | |
| Surr: 4-Bromofluorobenzene | 25.3 | | 25.00 | | 101 | 65 | 135 | | 0 | | |
| Sample ID: MB-30059 | SampType: MBLK | | | Units: µg/L | | Prep Date | e: 10/19/2 | 020 | RunNo: 626 | 78 | |
| Client ID: MBLKW | Batch ID: 30059 | | | | | Analysis Date | e: 10/19/2 | 020 | SeqNo: 125 | 7683 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | ND | 50.0 | | | | | | | | | |
| Surr: Toluene-d8 | 24.9 | | 25.00 | | 99.5 | 65 | 135 | | | | |
| Surr: 4-Bromofluorobenzene | 24.6 | | 25.00 | | 98.4 | 65 | 135 | | | | |
| Sample ID: 2010259-040BDUP | SampType: DUP | | | Units: µg/L | | Prep Date | e: 10/19/2 | 020 | RunNo: 626 | 578 | |
| Client ID: BATCH | Batch ID: 30059 | | | | | Analysis Date | e: 10/19/2 | 020 | SeqNo: 125 | 7659 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | ND | 50.0 | | | | | | 0 | | 30 | |
| Surr: Toluene-d8 | 24.8 | | 25.00 | | 99.2 | 65 | 135 | | 0 | | |
| Surr: 4-Bromofluorobenzene | 24.8 | | 25.00 | | 99.1 | 65 | 135 | | 0 | | |

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Date: 10/23/2020



Work Order: 2010271

Project:

QC SUMMARY REPORT

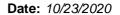
CLIENT: Fulcrum Environmental

Whitten Oil GW

Gasoline by NWTPH-Gx

| Sample ID: 2040207 002CDIID | CompType: DUD | | | Unito: .um/I | | Drop Do | to: 40/40/2 | 020 | RunNo: 626 | 270 | |
|-----------------------------|----------------------|------|-----------|--------------|------|-------------|--------------------|-------------|--------------------|----------|------|
| Sample ID: 2010307-002CDUP | SampType: DUP | | | Units: µg/L | | Ртер Ба | te: 10/19/2 | 020 | Rulino. 626 | 070 | |
| Client ID: BATCH | Batch ID: 30059 | | | | | Analysis Da | te: 10/20/2 | 020 | SeqNo: 12 5 | 57677 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline | ND | 50.0 | | | | | | 0 | | 30 | |
| Surr: Toluene-d8 | 25.3 | | 25.00 | | 101 | 65 | 135 | | 0 | | |
| Surr: 4-Bromofluorobenzene | 24.1 | | 25.00 | | 96.5 | 65 | 135 | | 0 | | |

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Work Order: 2010271

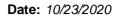
QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Volatile Organic Compounds by EPA Method 8260D

| Project: Whitten Oil 0 | SW | | | | | Volatile | Organic (| Compoun | ds by EPA | ، Method | 8260 |
|----------------------------------|-----------------------|------|-----------|-------------|------|--------------|-----------------------|-------------|-------------------|----------|------|
| Sample ID: LCS-30059 | SampType: LCS | | | Units: µg/L | | Prep Dat | te: 10/19/20 2 | 20 | RunNo: 626 | 577 | |
| Client ID: LCSW | Batch ID: 30059 | | | | | Analysis Dat | te: 10/19/20 2 | 20 | SeqNo: 125 | 57656 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit F | RPD Ref Val | %RPD | RPDLimit | Qua |
| Benzene | 21.3 | 1.00 | 20.00 | 0 | 107 | 80.5 | 126 | | | | |
| Toluene | 21.0 | 1.00 | 20.00 | 0 | 105 | 82.9 | 124 | | | | |
| Ethylbenzene | 20.5 | 1.00 | 20.00 | 0 | 103 | 85.3 | 123 | | | | |
| m,p-Xylene | 40.9 | 1.00 | 40.00 | 0 | 102 | 85.8 | 122 | | | | |
| o-Xylene | 20.1 | 1.00 | 20.00 | 0 | 100 | 85.4 | 121 | | | | |
| Surr: Dibromofluoromethane | 25.6 | | 25.00 | | 102 | 84.8 | 113 | | | | |
| Surr: Toluene-d8 | 25.9 | | 25.00 | | 104 | 88.5 | 110 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 25.2 | | 25.00 | | 101 | 89.9 | 108 | | | | |
| Sample ID: MB-30059 | SampType: MBLK | | | Units: µg/L | | Prep Dat | te: 10/19/202 | 20 | RunNo: 626 | 377 | |
| Client ID: MBLKW | Batch ID: 30059 | | | | | Analysis Dat | te: 10/19/20 2 | 20 | SeqNo: 125 | 57657 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit F | RPD Ref Val | %RPD | RPDLimit | Qua |
| Benzene | ND | 1.00 | | | | | | | | | |
| Toluene | ND | 1.00 | | | | | | | | | |
| Ethylbenzene | ND | 1.00 | | | | | | | | | |
| m,p-Xylene | ND | 1.00 | | | | | | | | | |
| o-Xylene | ND | 1.00 | | | | | | | | | |
| Surr: Dibromofluoromethane | 25.7 | | 25.00 | | 103 | 84.8 | 113 | | | | |
| Surr: Toluene-d8 | 25.6 | | 25.00 | | 102 | 88.5 | 110 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 24.4 | | 25.00 | | 97.7 | 89.9 | 108 | | | | |
| Sample ID: 2010271-001BMS | SampType: MS | | | Units: µg/L | | Prep Dat | te: 10/19/20 2 | 20 | RunNo: 626 | 377 | |
| Client ID: WOS-101420-CW02 | Batch ID: 30059 | | | | | Analysis Dat | te: 10/19/20 2 | 20 | SeqNo: 125 | 57636 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit F | RPD Ref Val | %RPD | RPDLimit | Qua |
| Benzene | 29.3 | 1.00 | 20.00 | 7.577 | 109 | 80.5 | 126 | | | | |
| Toluene | 23.7 | 1.00 | 20.00 | 1.893 | 109 | 82.9 | 124 | | | | |
| Ethylbenzene | 30.9 | 1.00 | 20.00 | 8.414 | 113 | 85.3 | 123 | | | | |

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Work Order: 2010271

QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Volatile Organic Compounds by EPA Method 8260D

| Sample ID: 2010271-001BMS | SampType: MS | | | Units: µg/L | | Prep Da | te: 10/19/2 | 2020 | RunNo: 626 | 577 | |
|----------------------------------|-----------------|------|-----------|-------------|------|-------------|--------------------|-------------|-------------------|----------|------|
| Client ID: WOS-101420-CW02 | Batch ID: 30059 | | | | | Analysis Da | te: 10/19/2 | 2020 | SeqNo: 125 | 7636 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| m,p-Xylene | 63.6 | 1.00 | 40.00 | 19.24 | 111 | 85.8 | 122 | | | | |
| o-Xylene | 45.8 | 1.00 | 20.00 | 23.91 | 110 | 85.4 | 121 | | | | |
| Surr: Dibromofluoromethane | 25.4 | | 25.00 | | 102 | 84.8 | 113 | | | | |
| Surr: Toluene-d8 | 25.1 | | 25.00 | | 100 | 88.5 | 110 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 25.4 | | 25.00 | | 102 | 89.9 | 108 | | | | |

| Sample ID: 2010271-001BMSD | 010271-001BMSD SampType: MSD Units: μg/L Prep Date: 10/19/2020 | | | | 020 | RunNo: 62677 | | | | | |
|-------------------------------|--|------|-----------|-------------|------|---------------------|--------------------|-------------|-------------------|----------|------|
| Client ID: WOS-101420-CW02 | Batch ID: 30059 | | | | | Analysis Da | te: 10/19/2 | 020 | SeqNo: 125 | 7637 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 28.8 | 1.00 | 20.00 | 7.577 | 106 | 80.5 | 126 | 29.31 | 1.66 | 30 | |
| Toluene | 23.3 | 1.00 | 20.00 | 1.893 | 107 | 82.9 | 124 | 23.69 | 1.88 | 30 | |
| Ethylbenzene | 31.0 | 1.00 | 20.00 | 8.414 | 113 | 85.3 | 123 | 30.94 | 0.315 | 30 | |
| m,p-Xylene | 63.6 | 1.00 | 40.00 | 19.24 | 111 | 85.8 | 122 | 63.57 | 0.107 | 30 | |
| o-Xylene | 46.0 | 1.00 | 20.00 | 23.91 | 110 | 85.4 | 121 | 45.82 | 0.394 | 30 | |
| Surr: Dibromofluoromethane | 25.1 | | 25.00 | | 100 | 84.8 | 113 | | 0 | | |
| Surr: Toluene-d8 | 24.7 | | 25.00 | | 98.9 | 88.5 | 110 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 25.4 | | 25.00 | | 102 | 89.9 | 108 | | 0 | | |

| Sample ID: 2010259-040BDUP | SampType: DUP | | | Units: µg/L | | Prep Da | te: 10/19/2 | 020 | RunNo: 626 | 677 | |
|----------------------------|----------------------|------|-----------|-------------|------|-------------|--------------------|-------------|-------------------|----------|------|
| Client ID: BATCH | Batch ID: 30059 | | | | | Analysis Da | te: 10/19/2 | 020 | SeqNo: 125 | 7633 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 1.00 | | | | | | 0 | | 30 | |
| Toluene | ND | 1.00 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 1.00 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 1.00 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 1.00 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 26.0 | | 25.00 | | 104 | 84.8 | 113 | | 0 | | |

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Date: 10/23/2020



Work Order: 2010271

Project:

QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Whitten Oil GW

Volatile Organic Compounds by EPA Method 8260D

| Sample ID: 2010259-040BDUP Client ID: BATCH | SampType: DUP Batch ID: 30059 | | | Units: µg/L | Prep Date: 10/19/2020 Analysis Date: 10/19/2020 | | | | RunNo: 626 SeqNo: 125 | | |
|---|---|----|----------------|-------------|---|--------------|------------|-------------|--|----------|------|
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | • | | RPD Ref Val | · | RPDLimit | Qual |
| Surr: Toluene-d8 Surr: 1-Bromo-4-fluorobenzene | 25.4 24.6 | | 25.00 25.00 | | 101 98.3 | 88.5 89.9 | 110 108 | | 0 0 | | |

| Sample ID: 2010307-002CDUP | SampType: DUP | | | Units: µg/L | | Prep Da | te: 10/19/2 | 020 | RunNo: 626 | 577 | |
|-------------------------------|----------------------|------|-----------|-------------|------|-------------|--------------------|-------------|-------------------|----------|------|
| Client ID: BATCH | Batch ID: 30059 | | | | | Analysis Da | te: 10/20/2 | 020 | SeqNo: 125 | 7652 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 1.00 | | | | | | 0 | | 30 | |
| Toluene | ND | 1.00 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 1.00 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 1.00 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 1.00 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 25.9 | | 25.00 | | 104 | 84.8 | 113 | | 0 | | |
| Surr: Toluene-d8 | 25.4 | | 25.00 | | 102 | 88.5 | 110 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 23.9 | | 25.00 | | 95.8 | 89.9 | 108 | | 0 | | |

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Sample Log-In Check List

| С | lient Name: | FES | Work O | rder Numb | oer: 2010271 | |
|------------|-----------------|--|---------|-----------|---------------------|----------------------|
| Lo | ogged by: | Carissa True | Date Re | eceived: | 10/16/202 | 0 10:25:00 AM |
| Cha | in of Custo | ody | | | | |
| | | ustody complete? | Yes | ✓ | No \square | Not Present |
| 2. | How was the | sample delivered? | FedE | <u> </u> | | |
| Log | ı İn | | | | | |
| _ | Coolers are p | present? | Yes | ✓ | No 🗌 | NA \square |
| 4. | Shipping conf | tainer/cooler in good condition? | Yes | ✓ | No 🗆 | |
| 5. | | ls present on shipping container/cooler? nments for Custody Seals not intact) | Yes | | No \square | Not Present ✓ |
| 6. | | npt made to cool the samples? | Yes | ✓ | No \square | NA \square |
| 7. | Were all item | s received at a temperature of >2°C to 6°C * | Yes | ✓ | No 🗆 | NA 🗆 |
| 8. | Sample(s) in | proper container(s)? | Yes | ✓ | No 🗆 | |
| 9. | Sufficient san | nple volume for indicated test(s)? | Yes | ✓ | No \square | |
| 10. | Are samples | properly preserved? | Yes | ✓ | No \square | |
| 11. | Was preserva | ative added to bottles? | Yes | | No 🗸 | NA 🗆 |
| 12. | Is there head | space in the VOA vials? | Yes | | No \square | NA 🗹 |
| 13. | Did all sample | es containers arrive in good condition(unbroken)? | Yes | ✓ | No 🗌 | |
| 14. | Does paperw | ork match bottle labels? | Yes | ✓ | No 🗌 | |
| 15. | Are matrices | correctly identified on Chain of Custody? | Yes | ✓ | No \square | |
| 16. | Is it clear wha | at analyses were requested? | Yes | ✓ | No \square | |
| 17. | Were all hold | ing times able to be met? | Yes | ✓ | No \square | |
| <u>Spe</u> | ecial Handli | ing (if applicable) | | | | |
| 18. | Was client no | otified of all discrepancies with this order? | Yes | | No \square | NA 🗸 |
| | Person | Notified: Date: | | | | |
| | By Who | m: Via: | еМа | il Ph | one 🗌 Fax [| In Person |
| | Regardi | ng: | | | | |
| | Client In | nstructions: | | | | |
| 19. | Additional rer | marks: | | | | |
| | | | | | | |

Item Information

| Item # | Temp ºC |
|----------|---------|
| Sample 1 | 1.4 |
| Sample 2 | 3.8 |

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

| | 3600 Fremont Ave N. | Chain of Custody Record & Labo | Laboratory Services Agreement |
|--|---|--|--|
| Fremonu | | # ! | Laboratory Project No (Internal): |
| Analytical | Fax: 206-352-7178 | n Oil GW | Special Remarks: |
| CHEMIC Frederican Env. Consulting | Consulting | Project No: 172766.00 | Sarout & Etiterum ret |
| Address: 207 West Books | soon the | collected by: S. Grout and A. Bjordi | threat @ ehilcrum. ret |
| City, State, Zip: Soluging | WA 99201 | plville, MA | cumanda. biondile efulcrum. ret |
| Telephone: 509-459-9220 | 020 | REPORTO (PM): Tradis Trant Scott | Sample Disposal: Return to client Subsposal by lab (after 30 days) |
| Fax: | | to be | |
| | | Sec Sept Sep | |
| Sample Name | Sample Sample Type Date Time (Matrix)* | Soline So | Comments |
| 1420-CN102 | O | * | |
| 2 WOS-101420-MWOY | 1039 | * | |
| 10MOS-101420-CMOI | 1103 | * | |
| 8 MOS-101420-MW03 | 1322 | * | |
| 5 WOS-101420-MWOLD | 1335 | * | |
| 6 WOS-101420-MW02 | 1442 | * | |
| , MOS-101420-MWO7 | 1503 | × | |
| 8 WOS-101420-MW08 | 1630 | * | |
| 9 | | | |
| 10 | | | |
| Q = Aqueous, B = Bulk, | O = Other, P = Product, S = Soil, SD = Sediment, | SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, | SW = Storm Water, WW = Waste Water Turn-ground Time: |
| MTCA-S RCRA-8 | tants TAL I | Ag | Se Sr Sn Ti Ti U V Zn |
| Transparent that I am authorized to | Chloride Sulfate Bromide | e O-Phosphate Fluoride Nitrate+Nitrite | |
| I represent that I am authorized to enter into this Agreement cach of the terms on the front and backside of this Agreement. | enter into this Agreement with ackside of this Agreement. | I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement. | ave verified Client's agreement to |
| Relinquished & Biongly | 0. 10/12/2010 1200 | * Collection of the second of | |
| xelinquished | Date/Time | | Same Day |

COC 1.2 - 2.22.17