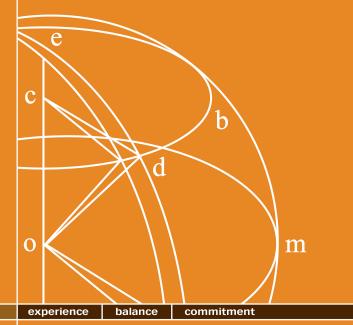


Whitten Oil Groundwater Monitoring September 2024 Sampling Report

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

Project Number: 244122.00

Date: October 23, 2024



Prepared for:

Whitten Oil Attn: Jeff Whitten 1118 27th Avenue Seattle, Washington 98122

Prepared by:

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The professionals who completed site services and prepared and reviewed this report include, but are not limited to:

ulun

Date: 10/23/2024

Dominic Casolari Environmental Technician

Reviewed by:

Authored by:

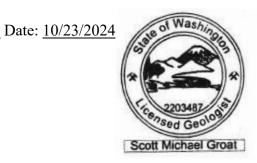
Date: <u>10/23/2024</u>

Ethan Ducken, GIT Environmental Scientist

Reviewed by: _____

att A

Scott Groat, LG Regional Manager





Report Integrity

Fulcrum Environmental Consulting, Inc.'s scope of service for this project was limited to those services as established in the proposal, contract, verbal direction, and/or agreement. This report is subject to applicable federal, state, and local regulations governing project-specific conditions and was performed using recognized procedures and standards of the industry. Scientific data collected in situ may document conditions that may be specific to the time and day of service, and subject to change as a result of conditions beyond Fulcrum's control or knowledge. Fulcrum makes no warranties, expressed or implied, as to the accuracy or completeness of other's work included herein. Fulcrum has performed these services in accordance with generally accepted environmental science standards of care at the time of the inspection. No warranty, expressed or implied, is made.



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1.0 INTRODUCTION

On September 23, 2024, Fulcrum Environmental Consulting, Inc. (Fulcrum) conducted semiannual groundwater monitoring for seven monitoring wells located at the Whitty's Chevron in Colville, Washington. The purpose of the monitoring was to evaluate petroleum hydrocarbon impacts to site groundwater associated with a historical gasoline release identified in September 1989.

Site services were completed by Ethan Ducken, a Washington State recognized Geologist-In-Training (GIT), and Abby Whitmore, a Senior Environmental Technician, both with Fulcrum.



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

Work was completed under the direction of Travis Trent, a Washington State Licensed Hydrogeologist, with Fulcrum. Relevant professional certifications are presented in Appendix A.

1.1 Scope of Services

Fulcrum has been retained by Whitten Oil (Whitten) since 2017 to complete semi-annual groundwater sampling services for onsite groundwater monitoring wells at Whitty's Chevron located at 370 West 5th Avenue in Colville, Washington. Each semi-annual sampling event consists of measurement of water depths in seven onsite groundwater monitoring wells followed by collection of water samples from each well. Samples are collected in accordance with industry standard of care and submitted under chain of custody to a Washington State accredited laboratory to be analyzed for benzene, toluene, ethylbenzene, xylene (BTEX), gasoline-range organics, diesel-range organics, and heavy oil-range organics. Results of the investigation and testing from September 23, 2024 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 dispenser island was observed to be located south of the convenience store, while another gasoline/diesel refueling area with two dispenser islands was observed to be located north of the convenience store. A more recently constructed dispensing island is located southeast of the convenience store. Four operational underground storage tanks (USTs) were reported to be located west of the convenience store within the southern 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. A six-bay carwash station is located northwest of the convenience store.

The entire surface of the property was observed to be covered by building footprints, concrete, or asphalt. Historical reports and observations from Fulcrum's September 2020 groundwater monitoring well installation event identified that beneath the paved surface are three to eight feet (ft) of sandy fill material underlain by fine-grained alluvium down to 14.5 feet below ground surface (ft bgs).

1.3 Site Hydrogeology

The site sits approximately 1,586 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 0.02. During Fulcrum's investigation, recorded site groundwater levels have ranged from 4.66 to 6.90 feet 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 the site's 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 retained by PES to observe the removal of the USTs and provide recommendations for corrective action. PES reportedly removed a total of six USTs from the site with one UST abandoned in place due to its location beneath the onsite office building. Three 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 5-foot intervals during the advancement of soil borings. Soil samples that exhibited a petroleum hydrocarbon odor were submitted to the 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 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 the 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 the contamination from migrating offsite. 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 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 soil sample was collected at the bottom of each soil boring. All five soil samples were submitted to Spectra Laboratories of Tacoma, Washington, for lead, methyl tert-butyl ether (MTBE), BTEX, and for concentrations of diesel-range hydrocarbons by Northwest Total Petroleum Hydrocarbons as diesel (NWTPH-Dx), as oil (NWTPH-Oil), and as gasoline (NWTPH-Gx). Laboratory analytical identified detectable concentrations of gasoline range petroleum hydrocarbons, ethyl benzene, toluene, xylene, and lead in soil boring 2-A and toluene and xylene were detected in soil borings 2-C and 2-D; all analytes were identified below MTCA Method A cleanup levels for soil. The 2005 historical soil boring results and locations are presented as Appendix C.



In 2017 Fulcrum was retained to conduct semiannual groundwater sampling at the site. Monitoring wells MW-04 and MW-06 were identified to be in poor condition (poor surface seals and slow recharge). They were decommissioned and replaced by new wells under Fulcrum's oversight on September 30, 2020. Concurrent with the well replacement, Fulcrum directed the installation of two new monitoring wells to better characterize site conditions.



Monitoring well MW-02 was installed upgradient north of the gas station building where the former Leaking Underground Storage Tanks (LUSTs) were removed and monitoring well MW-07 was installed at the northwest corner of the property to act as a downgradient sentinel well. Fulcrum continues to conduct groundwater monitoring on a semi-annual basis.

In May of 2022, Ecology, observing the trend of increasing concentrations, requested additional investigation to be included in the September 2022 groundwater monitoring report. Fulcrum consulted with the project laboratory who indicated that current increasing concentrations were inconsistent with a 1980 era fuel loss and likely associated with a new release. Fulcrum spoke with the property owner about the increasing concentrations and laboratory findings. The property owner indicated that they were unaware of any spill, leak, or overfill events that would contribute to the change in conditions and proposed waiting until results of March 2023 sampling to determine a course of action.

The March 2023 sampling event showed a modest reduction in concentration and areal extent relative to the September 2022 testing event. Fulcrum discussed the results with the property owner who again confirmed that they had no indications of a leak or knowledge of any spill, overfill, or loss and recommended waiting for the results of the September 2023 event to determine a course of action. Results from the September 2023 event identified elevated petroleum concentrations, which were especially high within monitoring well MW-07.

During Fulcrum's March and September 2024 sampling events, the sentinel well MW-07 was identified to be unsecured and inundated with sediment making the well incapable of being sampled.



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 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 Groundwater Sampling

On September 23, 2024, Fulcrum collected groundwater samples from six of the seven onsite monitoring wells. One field duplicate sample (WOS-092324-MW08) was collected for a total of seven 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.

While onsite during the March 2024 groundwater sampling event, Fulcrum identified MW-07 to be compromised. The well was discovered to be unsecured with the pressure cap removed and the well was filled with sediment that was not able to be cleared for sampling.



The groundwater flow direction, as determined by this sampling and monitoring event, is northwest with a hydraulic gradient of 0.02 (1.60-ft change in groundwater elevation over 80 feet), which is consistent with site geomorphology. A groundwater elevation map is presented as Figure 4. Sampling activities were completed using a peristaltic pump, submersible pump, and field water quality instruments. In each location the monitoring well was purged for a minimum of three well volumes following the stabilization of field parameters. Field parameters were measured prior to, during, and following completion of the monitoring well pumping to ensure that they stabilized, indicating a representative sample of groundwater.

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

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 1 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 D.

		Ground-	Results (µg/L)								
Location	Sample Number	water Elevation	Diesel	Oil	Gasoline	Benzene	Toluene	Ethylbenzene	Xylene		
CW-01	WOS-092324- CW01	93.75	143	ND	ND	1.17	ND	ND	ND		
CW-02	WOS-092324- CW02	93.51	1,920	4,430	68.70	2.65	0.74	ND	ND		
C w-02	WOS-092324- MW-08	93.51	1,560	3,650	78.0	2.56	0.79	ND	ND		
MW-02	WOS-092324- MW02	93.75	791	ND	182.0	0.26	ND	ND	ND		
MW-03	WOS-092324- MW03	92.98	349	ND	160.0	9.51	ND	ND	ND		

 Table 1: Whitty's Chevron Groundwater Analytical Results for September 23, 2024

Whitten Oil Groundwater Monitoring September 2024 Sampling Report



			Results (µg/L)								
Location	Sample Number	water Elevation	Diesel	Oil	Gasoline	Benzene	Toluene	Ethylbenzene	Xylene		
MW-04	WOS-092324- MW04	93.61	1,350	ND	967.0	95.5	ND	9.35	ND		
MW-06	WOS-092324- MW06	91.01	341	ND	126.0	ND	ND	ND	ND		
MW-07			-	-	-	-	-	-	-		
Applica	ble Cleanup Leve	ls (µg/L)	50	0	800	5	1,000	700	1,000		

Analytical results document concentrations of select analytes in excess of regulatory thresholds in all monitoring wells with the exception of CW-01 and MW-06. Combined diesel-range and heavy oil-range hydrocarbons were identified at concentrations above regulatory thresholds in four of the six sampled wells. Gasoline-range hydrocarbons were identified at concentrations above the regulatory thresholds in MW-04, and benzene was identified at concentrations above the regulatory thresholds in MW-03 and MW-04. MW-07 was inundated with sediment and not able to be sampled.

Samples were shown as received by the laboratory at an acceptable temperature. Based on laboratory analytical reports, it is Fulcrum's opinion that field and laboratory data quality results confirm acceptable accuracy of analytical data for all samples.

5.0 DISCUSSION

Fulcrum's September 2024 semi-annual groundwater monitoring event for seven onsite groundwater monitoring wells documented presence of petroleum hydrocarbon concentrations in excess of regulatory thresholds in four of the six sampled monitoring wells. MW-07 was not sampled due to well conditions.

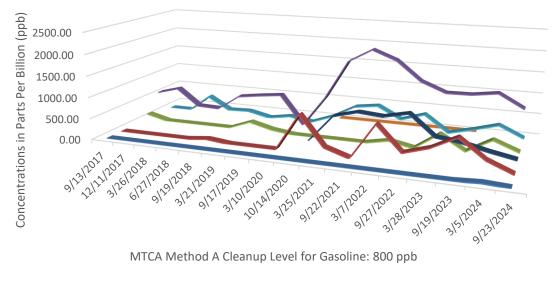
6.0 TRENDING EVALUATION

Review of monitoring data shows a trend of increased contaminant concentrations and areal extent that is inconsistent with ongoing degradation of a 1989 spill. Review of data generated during Fulcrum's monitoring from December of 2017 to current shows an increasing trend in both concentration and areal extent. Results of this monitoring event and trending data indicate that that a new release(s) of petroleum product has or is occurring.



6.1 Concentration Trending

Fulcrum reviewed concentration trending data for gasoline-range hydrocarbons, benzene, and diesel-range hydrocarbons. Fulcrum notes a variety of site conditions with potential to result in short term influence on contaminant concentrations including periodically dry wells, replacement of select monitoring wells, and placement of new monitoring wells. It is Fulcrum's opinion that review of contaminant concentrations over a longer period provides a strong understanding of site conditions.



Graph 1: September 2017-September 2024 Gasoline (NWTPH-Gx) Concentrations

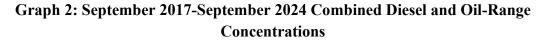
■ CW01 ■ CW02 ■ MW02 ■ MW03 ■ MW04 ■ MW06 ■ MW07

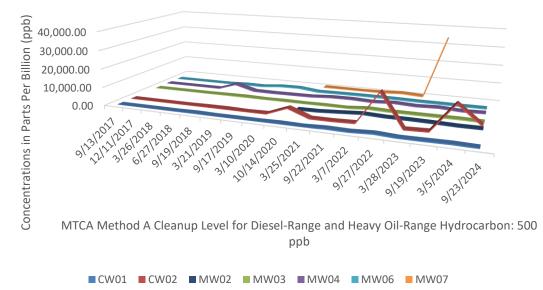
Graph 1 presents gasoline-range hydrocarbons concentrations in seven site monitoring wells over 17 consecutive monitoring events, noting that groundwater quality data could not be obtained from MW-07 due to the well becoming inundated with sediment in March 2024. Results show a relatively stable range of concentrations in MW-04 until the October 2020 sampling event where concentrations increased significantly. During the same sampling event elevated concentrations were also identified in CW-02, a location that was largely non-detect for gasoline. A second increase in concentrations is noted in MW-02 and MW-04 in September 2021, and a third notable increase in concentrations is observed in CW-02 in March of 2022. In March 2023 gasoline concentrations in MW-06 are shown to increase, while all other wells are shown to decrease or remain unchanged in concentration. In March 2024, gasoline concentrations in CW-01 are detected where previously the monitoring well had been non-detect. MW-03, MW-04, and MW-06 are shown to increase while CW-02 is shown to decrease and MW-07 was not sampled due to damaged well conditions.



In September 2024, all monitoring wells display a decrease in gasoline concentrations compared to historical data. MW-07 was not sampled during the September 2024 sampling event due to damaged well conditions.

Graph 2 below presents combined diesel-range and heavy oil-range hydrocarbon concentrations in the seven monitored wells. All wells were reported as non-detect for combined diesel-range and heavy oil-range hydrocarbon concentrations until September 2018 where a notable increase is observed in MW-04. A second notable increase in concentrations is observed in CW-02 in March 2020 and again in September 2022. In September 2023 concentrations are shown to drastically increase in MW-07 from non-detect concentrations to 34,100 ppb while all other wells are shown to decrease. In March 2024 CW-02 was observed to have a notable increase in concentrations. CW-01 and MW-03 have slight increases in concentrations, while MW-02, MW-04, and MW-06 have lower concentrations compared to the September 2023 sampling event. MW-07 was not sampled during the March 2024 sampling event due to damaged well conditions. In September 2024, concentrations of diesel and oil-range concentrations increased in MW-02, MW-04, and MW-06. MW-07 was not sampled during the September 2024 sampling event due to damaged well conditions.

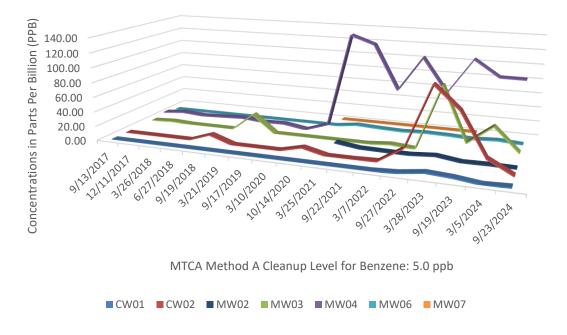




Graph 3 below presents identified benzene concentrations in the seven monitored wells. All wells were reported as non-detect or below cleanup for benzene concentrations with the exception of MW-04 through September 2018. Notable concentration increases occur in CW-02 in September 2018, October 2020, and again in September 2022. A notable increase in concentrations is noted in MW-03 in March 2019.



Notable increases in concentrations in MW-04 are observed in March 2021, September 2022, and September 2023. Notable increases in CW-02 and CW-03 are observed in March 2023. In March 2024 notable increases in concentrations are observed in MW-03, with slight increases in concentrations in MW-02 and MW-06 and decrease in concentrations or non-detect values in CW-01, CW-02, and MW-04. MW-07 was not sampled during the March 2024 sampling event due to damaged well conditions. In September 2024, MW-03, CW-02, and MW-06 displayed a decrease in benzene concentrations. CW-01, MW-02, and MW-06 showed no notable difference in benzene concentrations from past sampling events. MW-07 was not sampled during the September 2024 sampling event due to damaged well conditions.





6.2 Areal Extent Trending

Review of historical monitoring data shows an initial zone of contaminant concentration in the 1990 sampling data noting that the results are likely a generalization and that well placement was likely insufficient to fully characterize the exact extent of contaminant presence. In September of 2020, Fulcrum replaced two historical monitoring wells and added two additional monitoring wells to assist in better characterizing the groundwater contaminant plume at the site. Monitoring results from 2017 to 2024 show a trend of expanding contaminant presence for gasoline-range hydrocarbons, diesel-range hydrocarbons, and benzene. See Figures 5, 6, and 7 for a presentation of contaminant plume changes over time.



6.3 Laboratory Evaluation

Following the September 2022 sampling event, Fulcrum contacted Fremont Analytical of Seattle, Washington to request review of the data. Fremont Analytical is a Washington State accredited laboratory (79636). Fremont has been providing analytical services for the project since the initial monitoring event in December 2017. Fremont provided a general review of chromatographic data noting that results would only be generalized in nature and not a substitute for site specific forensic chemistry. Review of chromatographic data was limited to historical data collected from monitoring well CW-02.

Following review of the historical chromatographic data, Fremont's laboratory director reported that from 2018-2019 CW-02 reported low to non-detect concentrations of gasoline. From 2020-2021 an apparent increase in gasoline-range materials with a chemical footprint indicative of old, weathered gasoline was reported.

In September of 2022, an apparent new material with a unique chemical footprint likely related to diesel was identified. Fremont reported that the weathered nature of the new material indicates that a new release likely occurred after the March 2022 sampling event.

6.4 Trending Findings

Trending data shows decreases in concentrations during the September 2024 sampling event. Areal extent of contamination has remained unchanged and contaminant presence associated with MW-07 remains unknown due to the well becoming damaged in March 2024. The September 2023 sampling event observed significant increases for combined diesel and oil-range hydrocarbons in well MW-07. The September 2024 monitoring event found MW-07 inundated with sediment that prevented sampling. The September 2024 sampling event also observed a notable decrease in combined diesel and oil-range hydrocarbons within well CW-02, with the majority of the wells showing a stagnation or decrease of concentrations.

Results indicate that a new source(s) of contaminant has likely been introduced at the site some time prior to and after the September 2022 sampling event. Potential sources include but are not limited to spill/overfill events associated with the current USTs, leaks from the USTs or associated piping or dispensers, spills associated with normal fuel station operations, and/or run off from carwash activities.



7.0 FINDINGS AND RECOMMENDATIONS

Review of trending data indicates the likely introduction of a new source(s) of contaminant presence. Fulcrum recommends additional investigation to identify the source(s) of increasing contaminant presence. MW-07 was discovered to be inundated with sediment during the March 2024 sampling event and sampling of this wells has not been performed since September 2023. Fulcrum recommends replacement of the MW-07 well and placement of additional monitoring wells as necessary to characterize contaminant plume boundaries.

Following identification and correction of the source/cause of increasing trends, Fulcrum recommends re-evaluation of the site monitoring plan to ensure that it is positioned and designed to effectively characterize environmental conditions of site groundwater. Remedial action may be required to protect off-site resources.



LEGEND

Map Location



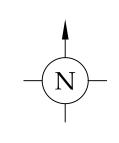


Figure 1: General Site Location Map

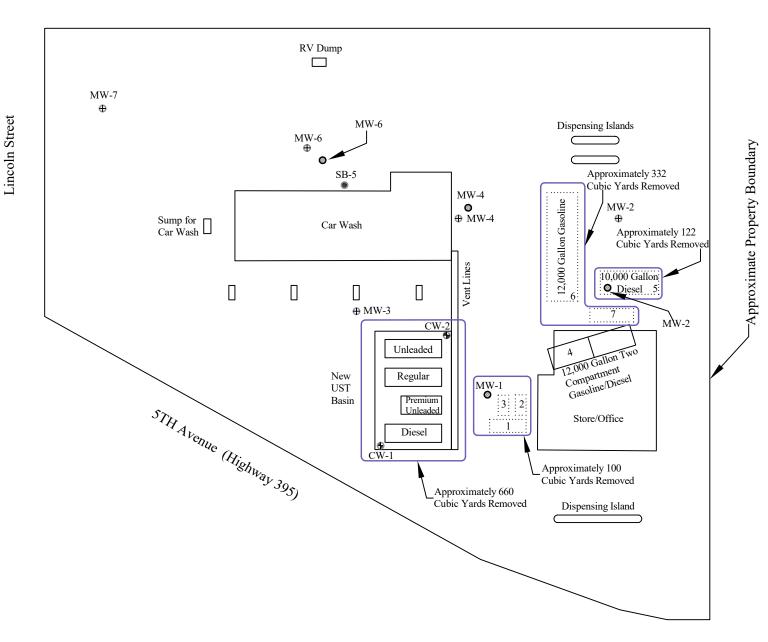
Second Semi-annual Groundwater Sampling Event September 2024 Whitty's Chevron 370 West 5th Avenue Colville, Washington

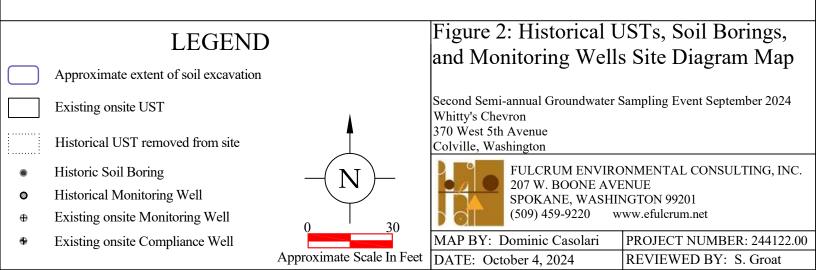


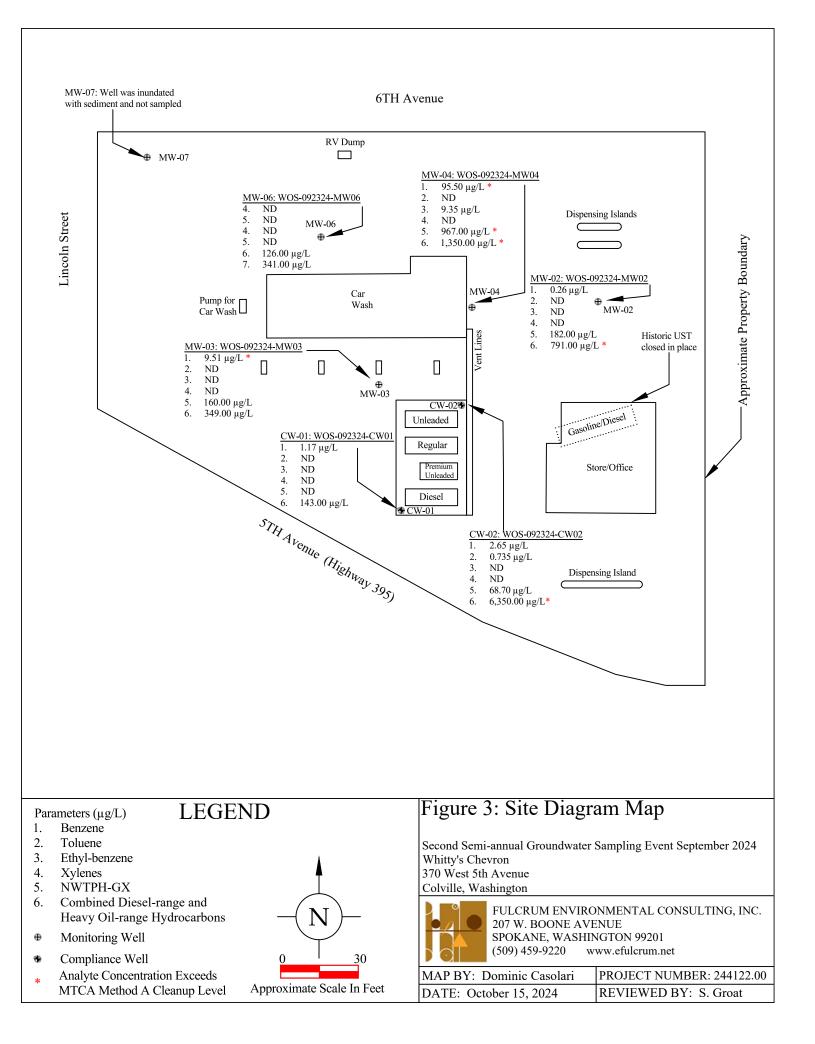
FULCRUM ENVIRONMENTAL CONSULTING, INC. 207 W. BOONE AVENUE SPOKANE, WASHINGTON 99201 (509) 459-9220 www.efulcrum.net

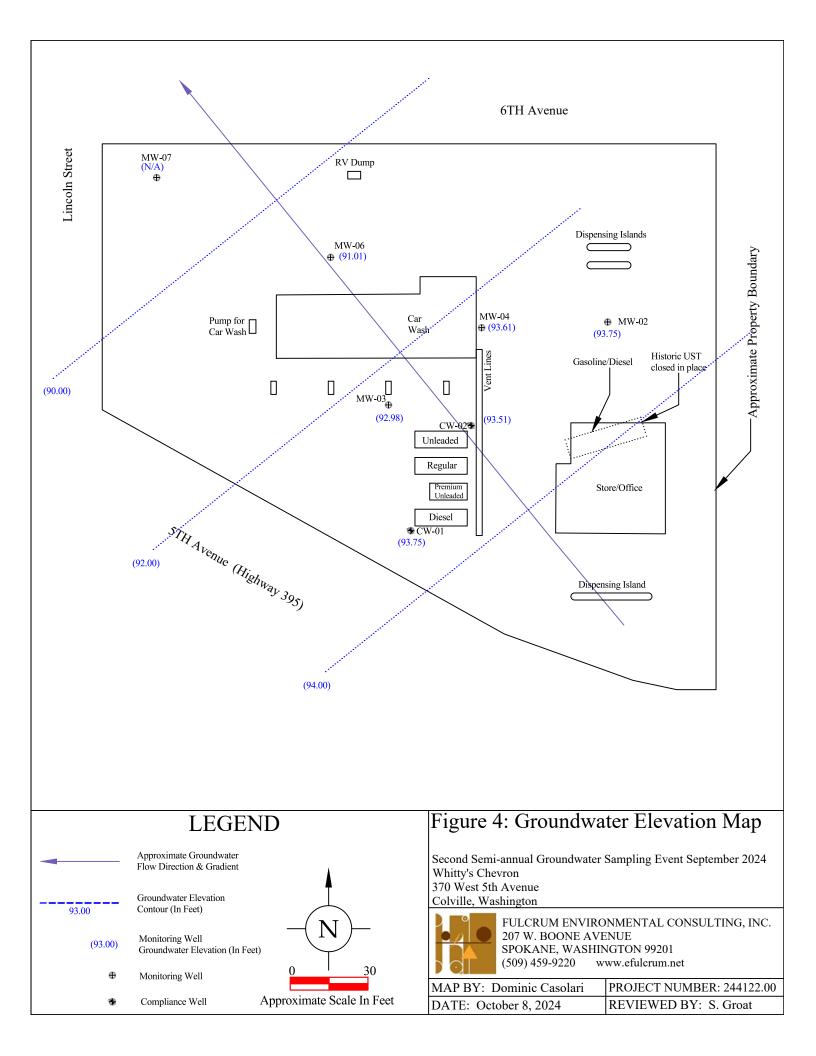
MAP BY: Dominic Casolari	PROJECT NUMBER: 244122.00
DATE: October 4, 2024	REVIEWED BY: S. Groat

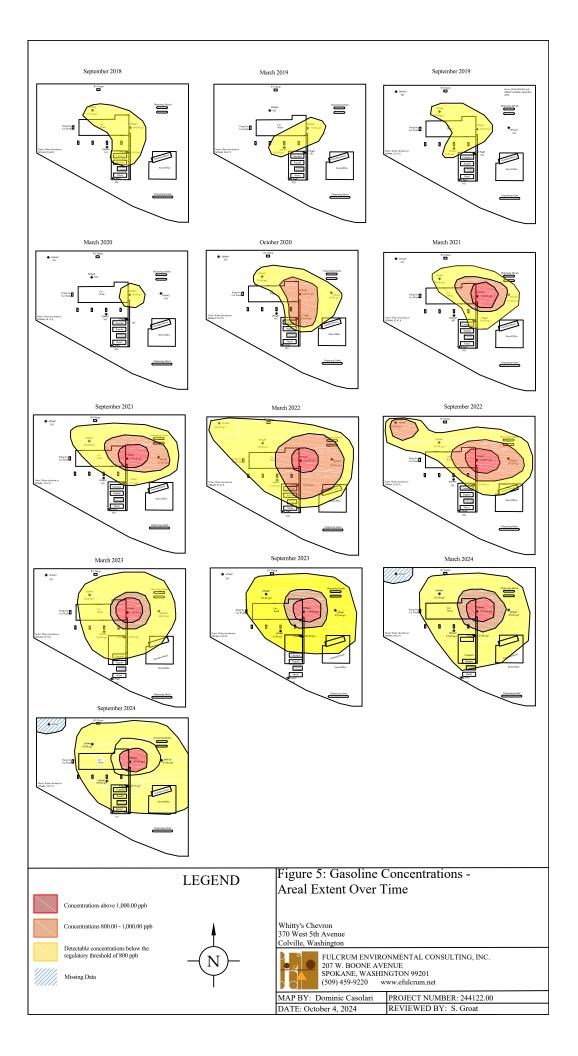
6TH Avenue

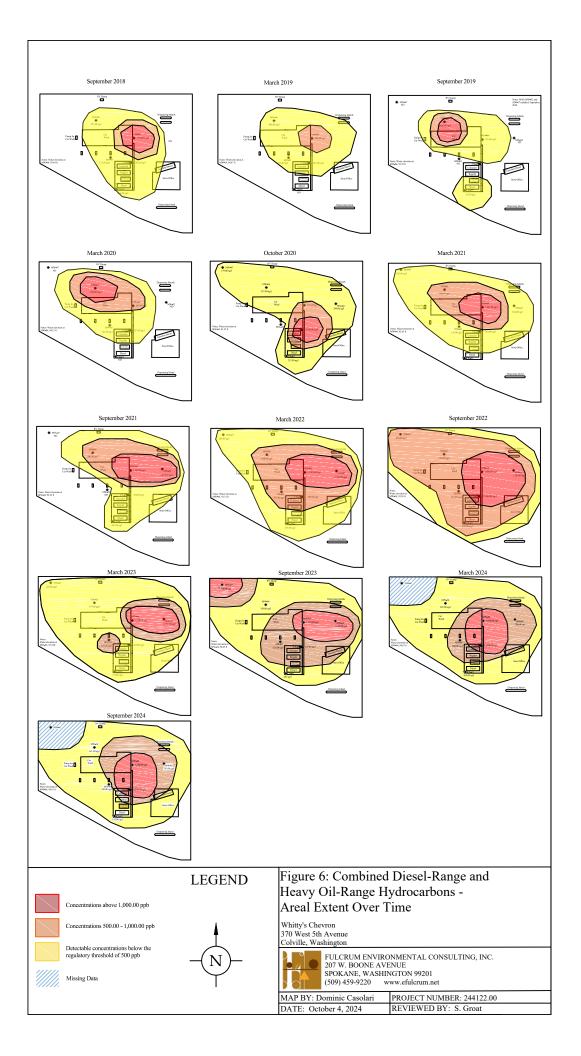


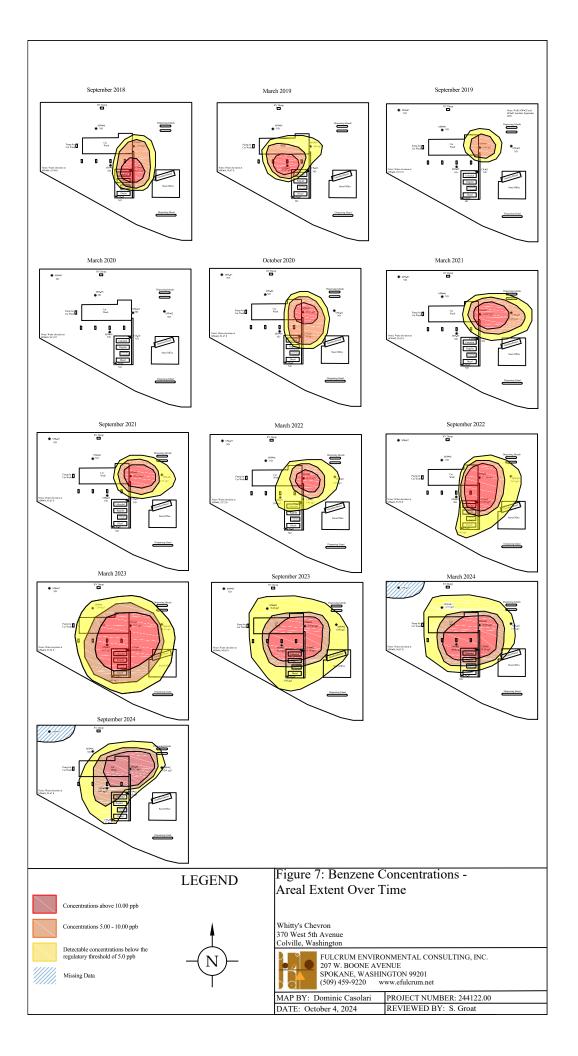














APPENDIX A

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 IN TRAINING

ETHAN JEFFREY DUCKEN 510 E 33rd Ave Spokane WA 99203-2611

22010959 License Number 05/04/2022 Issue Date

Expiration Date

Teresa Berntoen

Teresa Berntsen, Director



STATE OF WASHINGTON

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



SCOTT MICHAEL GROAT

22034387 License Number 11/17/2022 Issue Date 12/03/2024 Expiration Date



uper

Marcus J Glasper, Director



APPENDIX B

Summary of Historical Data

HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA Whitty's Chervon

370 West Fifth Avenue Colville, Washington

ID Date (text)	Boring	Sampling	ERP	DS	TD	TPH	Diesel-range hydrocarbons	Heavy oil-range hydrocarbons	Combined Diesel-range and Heavy oil-range	NWTPH-Gx	В	Т	Е	Х
SB-2 18/199 99.9 16.00 15.00 ND ND <th>ID</th> <th>Date</th> <th>(feet)</th> <th>(feet)</th> <th>(feet)</th> <th>(µg/L)</th> <th></th> <th></th> <th></th> <th>(µg/L)</th> <th>(µg/L)</th> <th>(µg/L)</th> <th>(µg/L)</th> <th>(µg/I</th>	ID	Date	(feet)	(feet)	(feet)	(µg/L)				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/I
SB-3 19/190 99.50 in 15.00 in	SB-1	1/8/1990	100.20		15.00									
SB-4 19/199 9.8,9 5.00 15.00 ND ND	SB-2	1/8/1990	99.39	10.00	15.00	ND				ND	ND	ND	ND	ND
SB-5 19/1990 9/2.2 5.00 1.5.00 1.20 <td>SB-3</td> <td>1/9/1990</td> <td>99.30</td> <td></td> <td>15.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SB-3	1/9/1990	99.30		15.00									
SB-6 19/1990 97.87 - 15.00 -	SB-4	1/9/1990	98.96	5.00	15.00	ND				ND	ND	ND	ND	ND
Well Sampling ERP DTW GWE TPH Deschrange hydrocarbons Heary oil-range hydrocarbons Combined Dissel-range (neg1) MWTPH-Gx. B T E N 0 Date (feet) (feet) (neg1) (neg1)	SB-5	1/9/1990	99.29	5.00	15.00	1,220					0.476	1.38	5.62	50.2
Weil Samplang EAP D1 Work Date (fee) (fee	SB-6	1/9/1990	97.87		15.00									
D Date (feet)	Well	Sampling	ERP	DTW	GWE	TPH		, ,	Ų	NWTPH-Gx	В	Т	Е	Х
CV-01 11/01/90 95.05 53/2 92.58 ND N	ID	Date	(feet)	(feet)	(feet)	(ug/L)				(ug/L)	(11g/L)	(ug/L)	(11.9/L.)	(11.9/
9/13/2017 99.50 5.91 94.54 ND ND </td <td></td> <td>(#8/</td>														(#8/
31262018 99.50 4.71 94.79 ND ND <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>N</td>										ND	ND	ND	ND	N
3/26/2018 99.50 5.53 93.97 ND ND </td <td></td> <td>12/11/2017</td> <td>99.50</td> <td>4.96</td> <td>94.54</td> <td></td> <td></td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>N</td>		12/11/2017	99.50	4.96	94.54					ND	ND	ND	ND	N
6/27/2018 99.50 5.53 93.67 ND ND </td <td></td> <td>3/26/2018</td> <td>99.50</td> <td>4.71</td> <td>94.79</td> <td></td> <td></td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>N</td>		3/26/2018	99.50	4.71	94.79					ND	ND	ND	ND	N
9/19/2018 99,50 5.86 93,64 214,00 ND		3/26/2018	99.50	4.71	94.79					ND	ND	ND	ND	N
3/21/2019 99.50 4.84 94.66 ND ND <td></td> <td>6/27/2018</td> <td>99.50</td> <td>5.53</td> <td>93.97</td> <td></td> <td></td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>N</td>		6/27/2018	99.50	5.53	93.97					ND	ND	ND	ND	N
9/17/2019 99.50 5.85 93.65 63.30 ND ND<				5.86	93.64		214.00		214.00		ND	ND		
31/02/20 99.50 4.89 94.61 ND														
10142020 99.50 5.81 93.69 212.00 ND ND </td <td></td>														
31252021 99.50 5.81 93.69 ND					94.61									
9222021 99.50 6.03 93.47 441.00 ND ND <td></td>														
37/7022 99.50 4.65 94.85 253.00 ND 233.00 ND N														
9/27/2022 99.50 5.97 93.53 830.00 ND 830.00 ND 1.61 ND ND N 3/28/2023 99.50 4.85 94.65 173.00 ND 173.00 ND 6.05 ND ND ND 6.05 ND ND ND ND 6.05 ND ND ND 143.00 ND 292.00 ND 143.00 ND 143.00 ND 1.17 ND														
3/28/2023 99.50 4.85 94.65 173.00 ND 173.00 ND 6.05 ND ND ND 9/19/2023 99.50 5.39 94.11 292.00 ND 292.00 ND 3.98 ND														
9/19/2023 99.50 5.39 94.11 292.00 ND 292.00 ND 3.98 ND ND ND 3/5/2024 99.50 4.71 94.79 445.00 ND 445.00 ND														
3/5/2024 99.50 4.71 94.79 445.00 ND 445.00 ND					94.65									
9/23/2024 99.50 5.75 93.75 143.00 ND 143.00 ND 1.17 ND ND ND CW-02 1/10/1990 99.01 5.33 93.66 ND			99.50	5.39	94.11		292.00	ND	292.00	ND	3.98	ND	ND	N
CW-02 1/10/1990 99.01 5.33 93.68 ND		3/5/2024	99.50	4.71	94.79		445.00	ND	445.00	31.00	ND	ND	ND	N
9/13/2017 99.01 5.64 93.36 ND ND </td <td></td> <td>9/23/2024</td> <td>99.50</td> <td>5.75</td> <td>93.75</td> <td></td> <td>143.00</td> <td>ND</td> <td>143.00</td> <td>ND</td> <td>1.17</td> <td>ND</td> <td>ND</td> <td>N</td>		9/23/2024	99.50	5.75	93.75		143.00	ND	143.00	ND	1.17	ND	ND	N
12/11/2017 99.01 4.65 94.36 ND <	CW-02			5.33										
3/26/2018 99.01 4.39 94.62 ND ND <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
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 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														
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														
9/19/2018 99.01 5.56 93.45 ND 188.00 188.00 188.00 56.80 9.94 15.90 ND N 3/21/2019 99.01 4.53 94.48 ND 261.00 261.00 ND														
3/21/2019 99.01 4.53 94.48 ND 261.00 261.00 ND														
9/17/2019 99.01 5.54 93.46 ND N														
3/10/2020 99.0/ 5.20 93.8/ ND 255.00 255.00 ND														
10/14/2020 99.01 5.54 93.47 ND 777.00 777.00 864.00 7.58 1.89 8.41 43. 10/14/2020 99.01 5.54 93.47 4,570.00 ND 4,570.00 818.00 7.45 1.89 8.26 42. 3/25/2021 99.01 5.41 93.60 364.00 ND 364.00 180.00 ND ND NJ NJ 0.49 0.29 9/22/2021 99.01 5.72 93.29 354.00 ND 354.00 0.72 ND ND <td></td>														
10/14/2020 99.01 5.54 93.47 4,570.00 ND 4,570.00 818.00 7.45 1.89 8.26 42. 3/25/2021 99.01 5.41 93.60 364.00 ND 364.00 180.00 ND ND ND 0.49 0.9 9/22/2021 99.01 5.72 93.29 354.00 ND 354.00 0.72 ND														
3/25/2021 99.01 5.41 93.60 364.00 ND 364.00 180.00 ND ND 0.49 0.5 9/22/2021 99.01 5.72 93.29 334.00 ND 354.00 0.72 ND														
9/22/2021 99.01 5.72 93.29 354.00 ND 354.00 ND 0.72 ND ND ND NI 3/7/2022 99.01 4.91 94.10 703.00 ND 703.00 828.00 0.95 ND ND ND 9/27/2022 99.01 5.68 93.33 17,600.00 ND 17,600 256.00 21.50 5.81 ND ND 3/28/2023 99.01 4.53 94.48 355.00 ND 355.00 104.00 20.50 0.46 10.3 9/19/2023 99.01 5.08 93.94 719.00 ND 719.00 162.00 75.10 5.58 0.49 0.9 3/5/2024 99.01 3.50 95.51 7,570.00 7940.00 15,500.00 301.00 20.10 0.57 0.57 1.1 9/23/2024 99.01 5.50 93.51 1,920.00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
3/7/2022 99.01 4.91 94.10 703.00 ND 703.00 828.00 0.95 ND ND NI NI 9/2/7/2022 99.01 5.68 93.33 17,600.00 ND 17,600 256.00 21.50 5.81 ND ND NI 3/28/2023 99.01 4.53 94.48 355.00 ND ND 355.00 429.00 104.00 20.50 0.46 10.3 9/19/2023 99.01 5.08 93.94 719.00 ND 719.00 162.00 75.10 5.58 0.49 0.9 3/5/2024 99.01 3.50 95.51 7,570.00 7940.00 15,500.00 301.00 20.10 0.57 0.57 1.1 9/23/2024 99.01 5.50 93.51 1,920.00 4430.00 6,350.00 68.70 2.65 0.74 ND ND														
9/27/2022 99.01 5.68 93.33 17,600.00 ND 17,600 256.00 21.50 5.81 ND NI 3/28/2023 99.01 4.53 94.48 355.00 ND 355.00 104.00 20.50 0.46 10.2 9/19/2023 99.01 5.08 93.94 719.00 ND 719.00 162.00 75.10 5.58 0.49 0.9 3/5/2024 99.01 3.50 95.51 7,570.00 7940.00 15,500.00 301.00 20.10 0.57 0.57 1.1 9/23/2024 99.01 5.50 93.51 1,920.00 4430.00 6350.00 68.70 2.65 0.74 ND ND														
3/28/2023 99.01 4.53 94.48 355.00 ND 355.00 429.00 104.00 20.50 0.46 10.3 9/19/2023 99.01 5.08 93.94 719.00 ND 719.00 162.00 75.10 5.58 0.49 0.9 3/5/2024 99.01 3.50 95.51 7,570.00 7940.00 15,500.00 301.00 20.10 0.57 0.57 1.1 9/23/2024 99.01 5.50 93.51 1,920.00 4430.00 6,350.00 68.70 2.65 0.74 ND NI														
9/19/2023 99.01 5.08 93.94 719.00 ND 719.00 162.00 75.10 5.58 0.49 0.9 3/5/2024 99.01 3.50 95.51 7,570.00 7940.00 15,500.00 301.00 20.10 0.57 0.57 1.1 9/23/2024 99.01 5.50 93.51 1,920.00 4430.00 6,350.00 68.70 2.65 0.74 ND ND														
3/5/2024 99.01 3.50 95.51 7,570.00 7940.00 15,500.00 301.00 20.10 0.57 0.57 1.1 9/23/2024 99.01 5.50 93.51 1,920.00 4430.00 6,350.00 68.70 2.65 0.74 ND N														
9/23/2024 99.01 5.50 93.51 1,920.00 4430.00 6,350.00 68.70 2.65 0.74 ND N														
2001 MTCA Method A Cleanup Levels for Groundwater NE 500 800 5 1000 700 10		JI 20, 2024	//.v.	5.50	/0.01		1,20100		0,000100	00170	2.00	0.7.	1.12	11

Well	Sampling	ERP	DTW	GWE	TPH	Diesel-range hydrocarbons	Heavy oil-range hydrocarbons	Combined Diesel-range and Heavy oil-range	NWTPH-Gx	В	Т	Е	х
ID	Date	(feet)	(feet)	(feet)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-1	1/10/1990	100.00	5.59	94.41	ND					ND	ND	ND	ND
	Decommissione												
MW-2	1/10/1990	98.92	4.51	94.41	2,460					1,643.0	409.00	ND	2955.00
	Decommissione												
New Well Installed	10/14/2020	98.92	5.83	93.09		249.00	ND	249.00	106.00	ND	ND	ND	ND
MW-02	3/25/2021	98.92				534.00	3,300.00	3,834.00	725.00	8.04	ND	27.70	1.74
	9/22/2021	98.92				1,010.00	ND	1,010.00	872.00	3.57	ND	4.73	ND
	3/25/2022	98.92				1,750.00	ND	1,750.00	828.00	2.95	ND	4.10	ND
	9/27/2022	98.92				1,260.00	ND	1,260.00	953.00	2.63	ND	1.49	ND
	3/28/2023	98.92	4.59	94.33		1,250.00	ND	1,250.00	489.00	4.97	ND	1.58	ND
	9/19/2023	98.92 98.92	5.36	93.56		1,070.00	ND ND	1,070.00	420.00	0.48 1.03	ND ND	ND	ND
	3/5/2024		4.6	94.32		738.00		738.00	289.00			0.26	ND
MW-03	9/23/2024 1/10/1990	98.92	5.17	93.75 92.79	 N/D	791.00	ND	791.00	182.00	0.26	ND	ND	ND ND
WIW-03	9/13/2017	98.56 98.56	5.77 5.55	93.02	ND				131.00	ND ND	ND ND	ND ND	ND
	12/11/2017	98.50 98.56	5.05	93.02 93.51					ND	1.65	ND	ND	ND
	12/11/2017	98.56	5.05	93.51					ND	1.60	ND	ND	ND
	3/26/2018	98.50 98.56	4.44	94.12					ND	ND	ND	ND	ND
	6/27/2018	98.50 98.56	5.26	93.30					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
	3/25/2021	98.56	6.11	92.45		ND	135.00	135.00	ND	ND	ND	ND	ND
	9/22/2021	98.56	5.58	92.28		159.00	ND	ND	ND	ND	ND	ND	ND
	3/7/2022	98.56	4.41	94.15		913.00	ND	913.00	111.00	2.64	ND	0.94	ND
	9/27/2022	98.56	5.56	92.91		552.00	ND	552.00	ND	ND	ND	ND	ND
	3/28/2023	98.56	5.32	93.24		518.00	ND	518.00	389.00	88.30	20.30	0.54	3.00
	9/19/2023	98.56	5.23	93.33		521.00	ND	521.00	53.00	15.30	0.52	ND	ND
	3/5/2024	98.56	4.29	94.27		590.00	ND	590.00	376.00	40.60	1.57	3.39	2.79
MW-04	9/23/2024	98.56	5.58	92.98		349.00	ND	349.00	160.00	9.51	ND	ND	ND
WIW-04	1/10/1990 9/13/2017	98.27 98.27	4.06 5.32	94.21 92.96					558.00	118 4.03	23.00 ND	ND 1.51	284.00 1.46
	9/13/2017 9/13/2017	98.27 98.27	5.32	92.96					547.00	4.05 ND	ND	ND	1.46 ND
	12/11/2017	98.27	4.13	92.90					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	3/10/2020	98.27	4.12	94.15		ND	602.00	602.00	80.10	ND	ND	2.61	ND
New 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
	3/25/2021	98.27	5.64	92.63		497.00	964.00	1,461.00	1,740.00	139.00	3.84	56.20	12.02
	9/22/2021	98.27	4.64	93.63		1,580.00	ND	1,580.00	2,050.00	128.00	3.10	36.50	6.07
	3/7/2022	98.27	4.55	93.72		1,130.00	ND	1,130.00	1,840.00	68.70	2.48	33.00	5.93
	9/27/2022	98.27	4.69	93.58		1,800.00	ND	1,800.00	1,400.00	115.00	2.47	35.60	4.30
	3/28/2023	98.27	4.73	93.54		1,250.00	ND	1,250.00	1,180.00	70.20	ND	15.50	3.94
	9/19/2023	98.27	4.22	94.05		1,710.00	ND	1,710.00	1,190.00	117.00	2.50	15.00	ND
	3/5/2024	98.27	3.60	94.67		1,050.00	ND	1,050.00	1,270.00	95.80	2.78	25.80	5.92
	9/23/2024	98.27	4.66	93.61		1,350.00	ND	1,350.00	967.00	95.50	ND	9.35	ND
MW-06	1/10/1990	97.27	9.01	88.26	ND					9.00	5.00	15.00	80.00
	9/13/2017	97.27							ND	ND	ND	ND	ND
	12/11/2017	97.27	5.24	02.02					404.00	 NID	ND	 NID	 NID
	3/26/2018 6/27/2018	97.27 97.27	5.24	92.03					404.00	ND	ND ND	ND ND	ND ND
	6/2//2018 9/19/2018	97.27 97.27	5.31 6.36	91.96 90.92		102.00	369.00	471.00	101.00 119.00	ND ND	ND ND	ND ND	ND ND
	3/21/2018	97.27 97.27	5.08	90.92 92.19		ND	409.00	409.00	ND	ND	ND	ND	ND
	9/17/2019	97.27 97.27	4.95	92.19		ND	1,440.00	1,440.00	90.20	ND	ND	ND	ND
1004 3 mm 5 :						110		1,110.00					
2001 MTCA M	etnod A Clean	up Levels f	ior Ground	iwater	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	Т	Е	Х
ID	Date	(feet)	(feet)	(feet)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-06	3/10/2020	97.27	4.51	92.76		ND	1,580.00	1,580.00	ND	ND	ND	ND	ND
Lab Filtered	3/10/2020	97.27	4.51	92.76		ND	1,350.00	1,350.00	ND	ND	ND	ND	ND
New well installed	10/14/2020	97.27	9.65	87.62		357.00	ND	357.00	202.00	ND	ND	ND	ND
	3/25/2021	97.27	5.91	91.36		128.00	372.00	500.00	499.00	4.01	ND	1.70	1.33
	9/22/2021	97.27	6.10	91.17		597.00	ND	597.00	575.00	2.32	ND	0.75	ND
	3/7/2022	97.27	5.48	91.79		600.00	ND	600.00	292.00	1.34	ND	ND	ND
	9/27/2022	97.27	6.12	91.15		550.00	ND	550.00	470.00	2.69	ND	ND	ND
	3/28/2023	97.27	5.65	91.62		374.00	ND	374.00	80.00	2.09	ND	ND	ND
	9/19/2023	97.27	6.02	91.25		356.00	ND	356.00	221.00	0.44	ND	0.21	ND
	3/5/2024	97.27	5.55	91.72		307.00	ND	307.00	382.00	2.37	ND	0.91	ND
	9/23/2024	97.27	6.26	91.01		341.00	ND	341.00	126.00	ND	ND	ND	ND
MW-07 New well	10/14/2020	95.27	8.72	86.55		179.00	ND	179.00	ND	ND	ND	ND	ND
	3/25/2021	95.27	5.95	89.32		ND	105.00	105.00	ND	ND	ND	ND	ND
	9/22/2021	95.27	5.47	89.80		ND	112.00	ND	ND	ND	ND	ND	ND
	3/7/2022	95.27	4.45	93.86		244.00	ND	244.00	ND	ND	ND	ND	ND
	9/27/2022	95.27	5.81	89.46		838.00	ND	838.00	ND	ND	ND	ND	ND
	3/28/2023	95.27	5.34	89.93		225.00	ND	225.00	ND	ND	ND	ND	ND
	9/19/2023	95.27	4.44	90.83		34,100.00	ND	34,100.00	ND	ND	ND	ND	ND
Well observed inundated	3/5/2024												
Well observed inundated	9/23/2024												
2001 MTCA Me	ethod A Cleanu	ip Levels f	or Ground	water	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

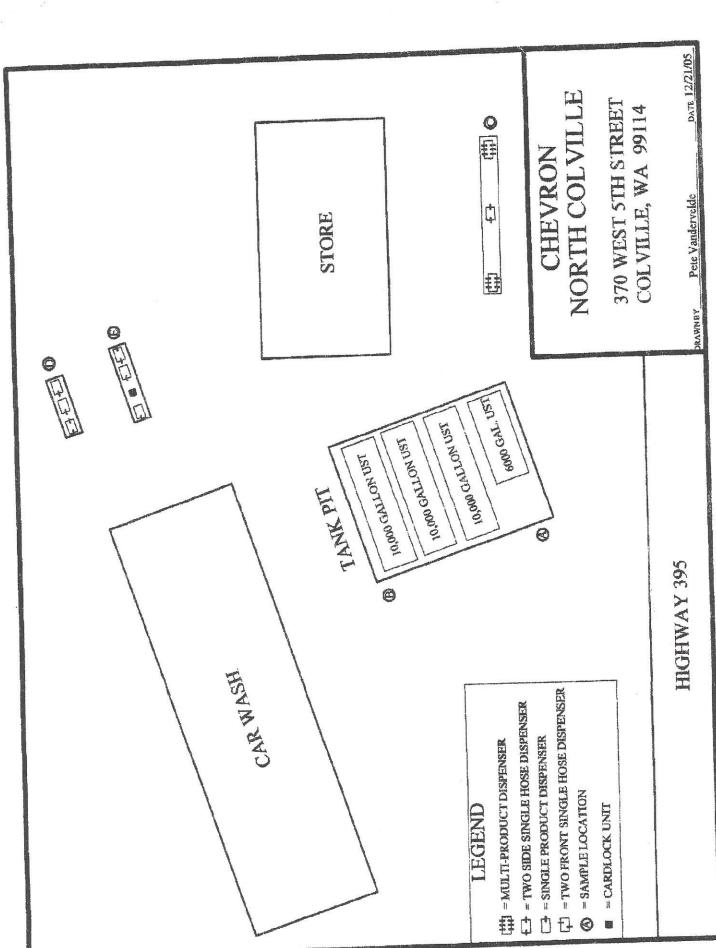
Not Established. Indvidual analyte thresholds for Total Petroleum Hydrocarbons (TPH) have not been established and
are referenced as the appropriate regulatory values above

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



Jun 27 04 09:57a

Glendon

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p.3

TABLE 1 SOIL SAMPLE RESULTS CHEVRON NORTH COLVILLE		CLEANUP STANDARD 2000 mg/Kg 2000 mg/Kg	100 mg/Kg OR 30mg/Kg	0.03 mag/Kg	0.1 mg/Kg 7.0 mg/Kg	B. O. 1986/Kg	250 mg/Kg	N/A = NOT ANALYZED (verifys analyte is below cleanup standards for highest NWTPH-G concentration reported) SULTS = ABOVE CLEANUP STANDARDS SULTS = ESTIMATED CONCENTRATION. RESULT IS ABOVE NORMAL CALIBRATION RANGE. FINAL RESULT IS MOST LIKELY HIGHER <1.25 ? = SAMPLE METHOD DETECTION LIMIT WAS DILUTED ABOVE CLEANUP STANDARD DUE TO HIGH CONCENTRATION OF OTHER ANALYTE DETECTED
OIL S	ົທ	2-E <100	<2.0	<0.025		40.05	N/A	s below cl : ILT IS ABO NAS DILUT
(j)	ŝ	2-D	<10	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025	<0.025	0.081	N/A	s analyte i NDARDS ON. RESU ON LIMIT V
	จัก	2-C <100	<10	<0.025	<0.025 <0.025 <0.025 <0.025	<0.05 0.111 <0.09	N/A	D (verifys UP STAI SENTRATH
	14	2-A 2-B	<10	<0.025	0.12 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.0	0.229 <0.05 0.111 0.69 <0.05 0.099	N/A	NALYZE E CLEAN TED CONC
	151	2-A <100	<10	<0.025	0.12	0.229	13	= NOT A ABOVE = STIMA
	DEPTH OF SAMPLE	ANALYSES NWTPH-OIL	NWTPH-DIESEL NWTPH-GAS	BENZENE	ETHYLBENZENE MTRE	TOLUENE	TOTAL LEAD	N/A = NOT ANALYZED (verifys analyte is BOLDED RESULTS = ABOVE CLEANUP STANDARDS ITALICIZED RESULTS = ESTIMATED CONCENTRATION. RESUL <1.25 ? = SAMPLE METHOD DETECTION LIMIT W

Jun 27 04 09:57a

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12/16/2005	P.O.#: Project: Client 1D:	Pd Ck #7160319036 Whitton Oil 2-A
a incomental Solutions Inc	Sample Matrix:	Soil
Northwest Environmental Solutions, Inc PO Box 1583		12/08/2005
	Date Received.	12/12/2005
Sommer, WA 98390	Spectra Project:	2005120100
Attn: rete vanderveide	Spectra Number:	

An	alyte	Kesult	Units	Method
Ules		~1Ú	mg/Kg	NWIFH-D
Oil		<100	mg/Kg	NM IAH-11
Gas	oline	8	mg/Kg	NWIPH-G
Ben	zene	<0.025	mg/Kg	SW840 8200B
Eth	ylbenzene	0.12	mg/Kg	5 W 840 820UM
Me	thyl-ten-Butyl Ether	~10.025	mg/Kg	SW 840 82000
Tol	uene	0.229	mg/Kg	5W840 52005
100	ai Xylenca	0.69	mg/Kg	5 W 540 820VD

Sunnapar	Recovery	Netheri
Tabayar 20	2.5.2	autres.A
d. Harmen Annanaharman	213	NWTPH.C
p /%/prenys	- ue	اللادرة والاردامي

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12/16/2005 Northwest Environmental Solutions, Inc	Project: Client ID: Sample Matrix: Date Sampled:	Pd Ck #7160319036 Whitton Oil 2-B Soil 12/08/2005
PO Box 1583 Sumner, WA 98390 Attn: Pete Vandervelde	Date Received: Spectra Project: Spectra Number:	

Analyte	Result	Units	Method
Diesel	<10	mg/Kg	NWTPH-D
Oil	<100	mg/Kg	NWTPH-D
20-01 (KUR3	<5	mg/Kg	NWTPH-G
Gasoline	<0.025	mg/Kg	SW846 8260B
Benzene	<0.025	mg/Kg	SW846 8260B
Ethylbenzcne		mg/Kg	SW846 8260B
Methyl-tert-Butyl Ether	<0.025		SW846 8260B
Toluenc	<0.05	mg/Kg	
Total Xylenes	<0.05	mg/Kg	SW846 8260B

SUIVOENIC	Kabovery	Method
	118	NWIPH-G
Tobane-15 4-Basserfluorobenzeue	111	NWIPH-U
p-Terphenyl	60	HWIPH-D

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Steve Hibbs, Laboratory Manager e6/ith

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Pd Ck #7160319036 P.O.#: Whitton Oil Project: 12/16/2005 2-C Client ID: Sample Matrix: Soil Northwest Environmental Solutions, Inc 12/08/2005 Date Sampled: PO Box 1583 Date Received: 12/12/2005 Summer, WA 98390 Spectra Project: 2005120166 Attn: Pete Vandervelde Spectra Number: 3 Rush

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Analyte	Result	Units	Method
Diesel	<10	mg/K.g	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-tert-Butyl Ether	<0.025	mg/Kg	SW846 8260B
Tolucne	0.111	mg/Kg	SW846 8260B
Total Xylenes	0.099	mg/Kg	SW846 8260B

SUTOBAR	Accovery	Method
Construction and a second se	111	NWTPH-G
1'elastic+db		
& Brumalluorobeaseac	119	NWTPK-C
p-Tanhany!	62	NWTPH-D

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Steve Hibbs, Laboratory Manager naijjh 12411020 10 5000 11-10/01/11 10/01 01 0201141 Page 3 of 5

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12/16/2005 Northwest Environmental Solutions, Inc PO Box 1583 Summer, WA 98390	Project: Client ID: Sample Matrix:	Pd Ck #7160319036 Whitton Oil 2-D Soil 12/08/2005 12/12/2005 2005120166
Attn: Pete Vandervelde	Spectra Number:	

Analyte	Result	Units	Method
Diesel	<10	ing/Kg	NWTPH-D
Oil	<100	mg/Kg	NWTPH-D
	<\$	mg/Kg	NWTPH-G
Gasoline	<0.025	mg/Kg	SW846 8260B
Benzene	<0.025	mg/Kg	SW846 8260B
Ethylbenzene		mg/Kg	SW846 8260B
Methyl-tert-Butyl Ether	<0.025		SW846 8260B
Toluene	0.066	mg/Kg	SW846 8260B
Total Xylenes	0.081	mg/Kg	3 W 540 820VD

Recovery	Method
115	NWTHH-G
112	NWTH-G
76	NWTPH-D
	115

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Steve Hibbs, Laboratory Manager adigh Page 4 of 5

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12/16/2005

Pd Ck #7160319036 P.O.#: Whitton Oil Project: 2-E Client ID: Sample Matrix: Soil Northwest Environmental Solutions, Inc 12/08/2005 Date Sampled: PO Box 1583 Date Received: 12/12/2005 Summer, WA 98390 Spectra Project: 2005120166 Attn: Pete Vandervelde Spectra Number: 5 Rush

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Analyte	Result	Units	Method
Diesel	<10	mg/Kg	NWTPH-D
Oil	<100	mg/Kg	NWTPH-D
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 8260B
Total Xylenes	<0.05	mg/Kg	SW846 8260B

Surveysie	Reservery	Melhod
and guines and the side of the second statements	112	NWITH
Icineus-q ₂	113	NWITH-O
4-目和Internormation	14.7.5.0	NW341433
p-Terphenyl	62	MAN I MISSIN

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

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APPENDIX D

Laboratory Analytical Results



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

Fulcrum Environmental Ethan Ducken 207 W Boone Ave Spokane, WA 99201

RE: Whitten Oil, 244122.00 Work Order Number: 2409443

October 02, 2024

Attention Ethan Ducken:

Fremont Analytical, Inc, an Alliance Technical Group company, received 7 sample(s) on 9/24/2024 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx Gasoline by NWTPH-Gx Volatile Organic Compounds by EPA 8260D

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

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

Sincerely,

Brianna Barnes Project Manager

CC: Abby Whitmore

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

Original



www.fremontanalytical.com



CLIENT: Project: Work Order:	Fulcrum Environmental Whitten Oil 2409443	Work Order S	ample Summary		
Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received		
2409443-001	W05-092324-CW01	09/23/2024 9:39 AM	09/24/2024 9:54 AM		
2409443-002	W05-092324-CW02	09/23/2024 10:40 AM	09/24/2024 9:54 AM		
2409443-003	W05-092324-MW02	09/23/2024 11:54 AM	09/24/2024 9:54 AM		
2409443-004	W05-092324-MW03	09/23/2024 12:40 PM	09/24/2024 9:54 AM		
2409443-005	W05-092324-MW04	09/23/2024 10:38 AM	09/24/2024 9:54 AM		
2409443-006	W05-092324-MW06	09/23/2024 9:32 AM	09/24/2024 9:54 AM		
2409443-007	W05-092324-MW08	09/23/2024 10:40 AM	09/24/2024 9:54 AM		



Case Narrative

WO#: **2409443** Date: **10/2/2024**

CLIENT:Fulcrum EnvironmentalProject: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#: **2409443** Date Reported: **10/2/2024**

Qualifiers:

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

Acronyms:

%Rec - Percent Recoverv CCB - Continued Calibration Blank CCV - Continued Calibration Verification **DF** - Dilution Factor **DUP - Sample Duplicate** HEM - Hexane Extractable Material ICV - Initial Calibration Verification LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate MCL - Maximum Contaminant Level MB or MBLANK - Method Blank MDL - Method Detection Limit MS/MSD - Matrix Spike / Matrix Spike Duplicate PDS - Post Digestion Spike Ref Val - Reference Value **REP - Sample Replicate RL** - Reporting Limit **RPD** - Relative Percent Difference **SD** - Serial Dilution SGT - Silica Gel Treatment SPK - Spike Surr - Surrogate



 Work Order:
 2409443

 Date Reported:
 10/2/2024

Project: Whitten Oil

Lab ID: 2409443-001 Client Sample ID: W05-092324	I-CW01			Collection Matrix: V			2024 9:39:00 AM
Analyses	Result	RL	Qual	Units	D	F Dat	e Analyzed
Diesel and Heavy Oil by NWTPI	<u>H-Dx</u>			Batc	h ID:	45305	Analyst: AP
Diesel Range Organics	143	93.1		μg/L	1	9/2	5/2024 8:28:27 PM
Heavy Oil	ND	140		µg/L	1	9/2	5/2024 8:28:27 PM
Total Petroleum Hydrocarbons	ND	233		µg/L	1	9/2	5/2024 8:28:27 PM
Surr: 2-Fluorobiphenyl	83.1	50 - 150		%Rec	1	9/2	5/2024 8:28:27 PM
Surr: o-Terphenyl	85.2	50 - 150		%Rec	1	9/2	5/2024 8:28:27 PM
NOTES:							
Chromatographic pattern indicates an un	resolved complex r	nixture, which r	nay be wea	thered and/or o	rganic	material	
Gasoline by NWTPH-Gx				Batc	h ID:	45354	Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	9/2	8/2024 8:40:00 AM
Surr: Toluene-d8	93.9	65 - 135		%Rec	1	9/2	8/2024 8:40:00 AM
Surr: 4-Bromofluorobenzene	100	65 - 135		%Rec	1	9/2	8/2024 8:40:00 AM
Volatile Organic Compounds b	<u>y EPA 8260D</u>			Batc	h ID:	45369	Analyst: KJ
Benzene	1.17	0.200	Q	µg/L	1	9/3	0/2024 2:48:02 PM
Toluene	ND	0.500		µg/L	1	9/3	0/2024 2:48:02 PM
Ethylbenzene	ND	0.500		µg/L	1	9/3	0/2024 2:48:02 PM
m,p-Xylene	ND	1.00		µg/L	1	9/3	0/2024 2:48:02 PM
o-Xylene	ND	0.500		µg/L	1	9/3	0/2024 2:48:02 PM
Surr: Dibromofluoromethane	99.7	81.7 - 121.7		%Rec	1	9/3	0/2024 2:48:02 PM
Surr: Toluene-d8	109	82.2 - 122.2		%Rec	1	9/3	0/2024 2:48:02 PM
Surr: 1-Bromo-4-fluorobenzene	97.2	80.9 - 120.9		%Rec	1	9/3	0/2024 2:48:02 PM
NOTES:							

NOTES:



 Work Order:
 2409443

 Date Reported:
 10/2/2024

CLIENT:	Fulcrum	Environmental
• = - =		

Project: Whitten Oil

_ab ID: 2409443-002 Client Sample ID: W05-092324	-CW02			Collection Matrix: V		t e: 9/23/2024	10:40:00
Analyses	Result	RL	Qual	Units	D	F Date Ar	nalyzed
Diesel and Heavy Oil by NWTPI	<u>H-Dx</u>			Batc	h ID:	45305 A	Analyst: AP
Diesel Range Organics	1,920	93.7		µg/L	1	9/25/2024	4 10:39:25 PN
Heavy Oil	4,430	141		µg/L	1	9/25/2024	4 10:39:25 PN
Total Petroleum Hydrocarbons	6,350	234		µg/L	1	9/25/2024	4 10:39:25 PN
Surr: 2-Fluorobiphenyl	80.5	50 - 150		%Rec	1	9/25/2024	4 10:39:25 PN
Surr: o-Terphenyl	85.0	50 - 150		%Rec	1	9/25/2024	4 10:39:25 PN
NOTES:							
Chromatographic pattern indicates the pr	esence of two over	rlapping product	ts, divided	into diesel and o	oil rang	es	
Basoline by NWTPH-Gx				Batc	h ID:	45354 A	Analyst: KJ
Gasoline Range Organics	68.7	50.0		µg/L	1	9/28/2024	4 2:10:56 PM
Surr: Toluene-d8	99.8	65 - 135		%Rec	1	9/28/2024	4 2:10:56 PM
Surr: 4-Bromofluorobenzene	96.7	65 - 135		%Rec	1	9/28/2024	4 2:10:56 PM
NOTES:							
Chromatographic pattern indicates a mat	erial consistent wit	h weathered ga	soline				
/olatile Organic Compounds b	<u>y EPA 8260D</u>			Batc	h ID:	45369 A	Analyst: KJ
Benzene	2.65	0.200	Q	μg/L	1	9/30/2024	4 3:16:41 PM
Toluene	0.735	0.500	Q	µg/L	1	9/30/2024	4 3:16:41 PM
Ethylbenzene	ND	0.500		μg/L	1	9/30/2024	4 3:16:41 PM
m,p-Xylene	ND	1.00		µg/L	1	9/30/2024	4 3:16:41 PM
o-Xylene	ND	0.500		µg/L	1	9/30/2024	4 3:16:41 PM
Surr: Dibromofluoromethane	98.1	81.7 - 121.7		%Rec	1	9/30/2024	4 3:16:41 PM
Surr: Toluene-d8	107	82.2 - 122.2		%Rec	1	9/30/2024	4 3:16:41 PM
Surr: 1-Bromo-4-fluorobenzene	102	80.9 - 120.9		%Rec	1	9/30/2024	4 3:16:41 PM
NOTES							

NOTES:



Work Order:	2409443
Date Reported:	10/2/2024

CLIENT:	Fulcrum	Environmental
CLIENT:	Fulcrum	Environmental

Project: Whitten Oil

Lab ID: 2409443-003 Client Sample ID: W05-092324	1-MW02			Collection Matrix: V			2024 11:54:00
Analyses	Result	RL	Qual	Units	D	F Date	e Analyzed
Diesel and Heavy Oil by NWTPI	H-Dx			Batc	h ID:	45305	Analyst: AP
Diesel Range Organics	791	93.3		µg/L	1	9/25	5/2024 8:40:36 PM
Heavy Oil	ND	140		µg/L	1	9/25	/2024 8:40:36 PM
Total Petroleum Hydrocarbons	791	233		µg/L	1	9/25	/2024 8:40:36 PM
Surr: 2-Fluorobiphenyl	85.3	50 - 150		%Rec	1	9/25	/2024 8:40:36 PM
Surr: o-Terphenyl	89.0	50 - 150		%Rec	1	9/25	6/2024 8:40:36 PM
NOTES:							
Chromatographic pattern indicates an un	resolved complex r	nixture, which n	nay be wea	athered and/or o	rganic	material	
Gasoline by NWTPH-Gx				Batc	h ID:	45354	Analyst: KJ
Gasoline Range Organics	182	50.0		μg/L	1	9/28	3/2024 10:19:15 AN
Surr: Toluene-d8	94.1	65 - 135		%Rec	1	9/28	2024 10:19:15 AN
Surr: 4-Bromofluorobenzene	95.3	65 - 135		%Rec	1	9/28	3/2024 10:19:15 AN
NOTES:							
Chromatographic pattern indicates a mat	erial consistent wit	h weathered ga	soline				
/olatile Organic Compounds b	<u>y EPA 8260D</u>			Batc	h ID:	45369	Analyst: KJ
Benzene	0.261	0.200	Q	μg/L	1	9/30)/2024 3:45:19 PM
Toluene	ND	0.500		µg/L	1	9/30	/2024 3:45:19 PM
Ethylbenzene	ND	0.500		μg/L	1	9/30	/2024 3:45:19 PM
m,p-Xylene	ND	1.00		μg/L	1	9/30	/2024 3:45:19 PM
o-Xylene	ND	0.500		μg/L	1	9/30	/2024 3:45:19 PM
Surr: Dibromofluoromethane	102	81.7 - 121.7		%Rec	1	9/30	/2024 3:45:19 PM
Surr: Toluene-d8	111	82.2 - 122.2		%Rec	1		/2024 3:45:19 PM
Surr: 1-Bromo-4-fluorobenzene	102	80.9 - 120.9		%Rec	1		/2024 3:45:19 PM
NOTES					-		

NOTES:



 Work Order:
 2409443

 Date Reported:
 10/2/2024

Project: Whitten Oil

Lab ID: 2409443-004 Client Sample ID: W05-092324-MW03				Collection Date: 9/23/2024 12:40: Matrix: Water			
Analyses	Result	RL	Qual	Units	D	F Dat	e Analyzed
Diesel and Heavy Oil by NWTP	<u>H-Dx</u>			Batc	h ID:	45305	Analyst: AP
Diesel Range Organics	349	93.2		µg/L	1	9/25	5/2024 8:52:34 PM
Heavy Oil	ND	140		µg/L	1	9/25	5/2024 8:52:34 PM
Total Petroleum Hydrocarbons	349	233		µg/L	1	9/25	5/2024 8:52:34 PM
Surr: 2-Fluorobiphenyl	80.0	50 - 150		%Rec	1	9/25	5/2024 8:52:34 PM
Surr: o-Terphenyl	86.8	50 - 150		%Rec	1	9/25	5/2024 8:52:34 PM
NOTES:							
Gasoline Range Organics	160	50.0		µg/L	1	9/28	3/2024 2:43:57 PN
Gasoline Range Organics	160	50.0		µg/L	1	9/28	3/2024 2:43:57 PM
Surr: Toluene-d8	97.4	65 - 135		%Rec	1	9/28	3/2024 2:43:57 PM
Surr: 4-Bromofluorobenzene	97.2	65 - 135		%Rec	1	9/28	3/2024 2:43:57 PM
/olatile Organic Compounds b	<u>y EPA 8260D</u>			Batc	h ID:	45369	Analyst: KJ
Benzene	9.51	0.200	Q	µg/L	1	9/30)/2024 4:13:55 PN
Toluene	ND	0.500		µg/L	1	9/30)/2024 4:13:55 PM
Ethylbenzene	ND	0.500		µg/L	1	9/30)/2024 4:13:55 PM
m,p-Xylene	ND	1.00		μg/L	1	9/30)/2024 4:13:55 PM
o-Xylene	ND	0.500		μg/L	1	9/30)/2024 4:13:55 PM
Surr: Dibromofluoromethane	96.1	81.7 - 121.7		%Rec	1	9/30)/2024 4:13:55 PN
Surr: Toluene-d8	105	82.2 - 122.2		%Rec	1	9/30)/2024 4:13:55 PN
Surr: 1-Bromo-4-fluorobenzene	101	80.9 - 120.9		%Rec	1	9/30)/2024 4:13:55 PN
NOTES:							

NOTES:



Work Order:	2409443
Date Reported:	10/2/2024

Project: Whitten Oil

Lab ID: 2409443-005 Client Sample ID: W05-09232	4-MW04		Collection Matrix: V		9/23/2024 10:38:00 AM	
Analyses	Result	RL Qual	I Units DF Date Analyze			
Diesel and Heavy Oil by NWTF	<u>'H-Dx</u>		Batch	n ID: 45	305 Analyst: AP	
Diesel Range Organics	1,350	94.0	µg/L	1	9/25/2024 9:04:25 PM	
Heavy Oil	ND	141	µg/L	1	9/25/2024 9:04:25 PM	
Total Petroleum Hydrocarbons	1,350	235	µg/L	1	9/25/2024 9:04:25 PM	
Surr: 2-Fluorobiphenyl	84.7	50 - 150	%Rec	1	9/25/2024 9:04:25 PM	
Surr: o-Terphenyl	90.2	50 - 150	%Rec	1	9/25/2024 9:04:25 PM	

NOTES:

Chromatographic pattern indicates an unresolved complex mixture, which may be weathered and/or organic material Detection is biased high by overlap with gasoline-range material

Gasoline by NWTPH-Gx				Batc	h ID: 4	5354	Analyst: KJ
Gasoline Range Organics	967	50.0		µg/L	1	9/28	9/2024 3:17:05 PM
Surr: Toluene-d8	117	65 - 135		%Rec	1	9/28	/2024 3:17:05 PM
Surr: 4-Bromofluorobenzene	96.6	65 - 135		%Rec	1	9/28	2024 3:17:05 PM
Volatile Organic Compounds by	<u>y EPA 8260D</u>			Batc	h ID: 4	5369	Analyst: KJ
Benzene	95.5	2.00	DQ	µg/L	10	9/30)/2024 4:42:36 PM
Toluene	ND	5.00	D	µg/L	10	9/30	/2024 4:42:36 PM
Ethylbenzene	9.35	5.00	D	µg/L	10	9/30	/2024 4:42:36 PM
m,p-Xylene	ND	10.0	D	µg/L	10	9/30	/2024 4:42:36 PM
o-Xylene	ND	5.00	D	µg/L	10	9/30	/2024 4:42:36 PM
Surr: Dibromofluoromethane	98.9	81.7 - 121.7	D	%Rec	10	9/30	/2024 4:42:36 PM
Surr: Toluene-d8	108	82.2 - 122.2	D	%Rec	10	9/30	/2024 4:42:36 PM
Surr: 1-Bromo-4-fluorobenzene	99.7	80.9 - 120.9	D	%Rec	10	9/30	/2024 4:42:36 PM

NOTES:



 Work Order:
 2409443

 Date Reported:
 10/2/2024

CLIENT:	Fulcrum	Environmental

Project: Whitten Oil

Lab ID: 2409443-006 Client Sample ID: W05-092324	-MW06			Collectio Matrix: \			8/2024 9:32:00 AM
Analyses	Result	RL	Qual	I Units DF Date Analyze			
Diesel and Heavy Oil by NWTPH	I-Dx			Batc	h ID:	45305	Analyst: AP
Diesel Range Organics	341	94.5		µg/L	1	9/	25/2024 9:16:14 PM
Heavy Oil	ND	142		µg/L	1	9/	25/2024 9:16:14 PM
Total Petroleum Hydrocarbons	341	236		µg/L	1	9/	25/2024 9:16:14 PM
Surr: 2-Fluorobiphenyl	90.1	50 - 150		%Rec	1	9/	25/2024 9:16:14 PM
Surr: o-Terphenyl	94.7	50 - 150		%Rec	1	9/	25/2024 9:16:14 PM
NOTES:							
Chromatographic pattern indicates an unr	esolved complex n	nixture, which ma	ay be weathe	red and/or c	organic	material	
Gasoline by NWTPH-Gx				Batc	h ID:	45354	Analyst: KJ
Gasoline Range Organics	126	50.0		µg/L	1	9/	28/2024 11:58:33 AM
Surr: Toluene-d8	95.5	65 - 135		%Rec	1	9/	28/2024 11:58:33 AM
Surr: 4-Bromofluorobenzene	94.1	65 - 135		%Rec	1	9/	28/2024 11:58:33 AM
Volatile Organic Compounds by	<u> EPA 8260D</u>			Batc	h ID:	45354	Analyst: KJ
Benzene	ND	0.200		µg/L	1	9/	28/2024 11:58:33 AM
Toluene	ND	0.500		µg/L	1	9/	28/2024 11:58:33 AM
Ethylbenzene	ND	0.500		µg/L	1	9/	28/2024 11:58:33 AM
m,p-Xylene	ND	1.00		µg/L	1	9/	28/2024 11:58:33 AM
o-Xylene	ND	0.500		μg/L	1	9/	28/2024 11:58:33 AM
Surr: Dibromofluoromethane	104	81.7 - 121.7		%Rec	1	9/	28/2024 11:58:33 AM
Surr: Toluene-d8	110	82.2 - 122.2		%Rec	1	9/	28/2024 11:58:33 AM
Surr: 1-Bromo-4-fluorobenzene	103	80.9 - 120.9		%Rec	1	9/	28/2024 11:58:33 AM



Work Order:	2409443
Date Reported:	10/2/2024

CLIENT:	Fulcrum	Environmental
CLIENT:	Fulcrum	Environmental

Project: Whitten Oil

Lab ID: 2409443-007 Client Sample ID: W05-092324	I-MW08			Collection Matrix: V			2024 10:40:00
Analyses	Result	RL	Qual	Units	D	F Date	e Analyzed
Diesel and Heavy Oil by NWTPI	<u>H-Dx</u>			Batc	h ID:	45305	Analyst: AP
Diesel Range Organics	1,560	94.2		µg/L	1	9/25	/2024 9:51:54 PM
Heavy Oil	3,650	141		µg/L	1	9/25	/2024 9:51:54 PM
Total Petroleum Hydrocarbons	5,210	235		µg/L	1	9/25	/2024 9:51:54 PM
Surr: 2-Fluorobiphenyl	90.9	50 - 150		%Rec	1	9/25	/2024 9:51:54 PM
Surr: o-Terphenyl	96.6	50 - 150		%Rec	1	9/25	/2024 9:51:54 PM
NOTES:							
Chromatographic pattern indicates the pr	esence of two over	lapping produc	ts, divided	into diesel and o	oil rang	jes	
Basoline by NWTPH-Gx				Batc	h ID:	45354	Analyst: KJ
Gasoline Range Organics	78.0	50.0		µg/L	1	9/28	/2024 12:31:38 PM
Surr: Toluene-d8	93.9	65 - 135		%Rec	1	9/28	/2024 12:31:38 PM
Surr: 4-Bromofluorobenzene	98.7	65 - 135		%Rec	1	9/28	/2024 12:31:38 PM
NOTES:							
Chromatographic pattern indicates a mat	erial consistent wit	h weathered ga	soline				
/olatile Organic Compounds b	<u>y EPA 8260D</u>			Batc	h ID:	45369	Analyst: KJ
Benzene	2.56	0.200	Q	μg/L	1	9/30	/2024 5:11:14 PM
Toluene	0.790	0.500	Q	µg/L	1	9/30	/2024 5:11:14 PM
Ethylbenzene	ND	0.500		μg/L	1	9/30	/2024 5:11:14 PM
m,p-Xylene	ND	1.00		µg/L	1	9/30	/2024 5:11:14 PM
o-Xylene	ND	0.500		µg/L	1	9/30	/2024 5:11:14 PM
Surr: Dibromofluoromethane	103	81.7 - 121.7		%Rec	1	9/30	/2024 5:11:14 PM
Surr: Toluene-d8	110	82.2 - 122.2		%Rec	1	9/30	/2024 5:11:14 PM
Surr: 1-Bromo-4-fluorobenzene	102	80.9 - 120.9		%Rec	1	9/30	/2024 5:11:14 PM
NOTES:	152	20.0 120.0		/01/00		0,00	

NOTES:



CLIENT: Fulcrum Environmental

Project: Whitten Oil

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx

Sample ID: MB-45305	SampType: MBLK			Units: µg/L		Prep Date	e: 9/24/20)24	RunNo: 945	554	
Client ID: MBLKW	Batch ID: 45305					Analysis Date	e: 9/25/20)24	SeqNo: 197	74552	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Diesel Range Organics	ND	100									
Heavy Oil	ND	150									
Total Petroleum Hydrocarbons	ND	250									
Surr: 2-Fluorobiphenyl	21.7		25.00		86.7	50	150				
Surr: o-Terphenyl	21.3		25.00		85.1	50	150				
Sample ID: LCS-45305	SampType: LCS			Units: µg/L		Prep Date	e: 9/24/20)24	RunNo: 945	554	
Client ID: LCSW	Batch ID: 45305					Analysis Date	e: 9/25/20	24	SeqNo: 197	74553	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Total Petroleum Hydrocarbons	1,080	250	1,250	0	86.4	42.5	123				
Surr: 2-Fluorobiphenyl	19.9		25.00		79.6	50	150				
Surr: o-Terphenyl	24.8		25.00		99.0	50	150				
Sample ID: 2409447-001BDUP	SampType: DUP			Units: µg/L		Prep Date	e: 9/24/20)24	RunNo: 945	554	
Client ID: BATCH	Batch ID: 45305					Analysis Date	e: 9/25/20	24	SeqNo: 197	74555	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Diesel Range Organics	2,280	94.1						2,541	10.7	30	
Heavy Oil	ND	141						0		30	
Total Petroleum Hydrocarbons	2,280	235						2,541	10.7	30	
Surr: 2-Fluorobiphenyl	19.4		23.53		82.4	50	150		0		
Surr: o-Terphenyl	13.1		23.53		55.8	50	150		0		
NOTES											

NOTES:

Chromatographic pattern indicates an unresolved complex mixture, which may be weathered and/or organic material

Detection is biased high due to non-petroleum compounds



CLIENT:	2409443 Fulcrum Env Whitten Oil	vironmental								QC S	SUMMAI Gasoline		
Sample ID: LCS-45	354	SampType	LCS			Units: µg/L		Prep Da	te: 9/27/20)24	RunNo: 946	675	
Client ID: LCSW		Batch ID:	45354					Analysis Da	te: 9/28/20)24	SeqNo: 197	76928	
Analyte		F	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Org	ganics		546	50.0	500.0	0	109	65	135				
Surr: Toluene-d8			23.9		25.00		95.5	65	135				
Surr: 4-Bromofluo	probenzene		26.3		25.00		105	65	135				
Sample ID: MB-453	54	SampType	MBLK			Units: µg/L		Prep Da	te: 9/27/20)24	RunNo: 946	675	
Client ID: MBLKW	v	Batch ID:	45354					Analysis Da	te: 9/28/20)24	SeqNo: 197	76916	
Analyte		F	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Org	ganics		ND	50.0									
Surr: Toluene-d8			23.8		25.00		95.1	65	135				
Surr: 4-Bromofluo	orobenzene		24.1		25.00		96.5	65	135				
Sample ID: 2409443	3-001ADUP	SampType	DUP			Units: µg/L		Prep Da	te: 9/27/20)24	RunNo: 946	675	
Client ID: W05-09	2324-CW01	Batch ID:	45354					Analysis Da	te: 9/28/20)24	SeqNo: 197	76918	
Analyte		F	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Org	ganics		ND	50.0						0		30	
Surr: Toluene-d8			23.4		25.00		93.8	65	135		0		
Surr: 4-Bromofluo	probenzene		25.4		25.00		101	65	135		0		



CLIENT: Fulcrum Environmental

Project: Whitten Oil

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: LCS-45354	SampType: LCS			Units: µg/L		Prep Dat	te: 9/27/20	24	RunNo: 946	691	
Client ID: LCSW	Batch ID: 45354					Analysis Da	te: 9/28/20	24	SeqNo: 197	7336	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	25.7	0.200	20.00	0	129	80	120				S
Toluene	25.5	0.500	20.00	0	127	80	120				S
Ethylbenzene	20.5	0.500	20.00	0	102	80	120				
m,p-Xylene	42.4	1.00	40.00	0	106	80	120				
o-Xylene	21.2	0.500	20.00	0	106	80	120				
Surr: Dibromofluoromethane	27.2		25.00		109	81.7	121.7				
Surr: Toluene-d8	29.4		25.00		118	82.2	122.2				
Surr: 1-Bromo-4-fluorobenzene	27.2		25.00		109	80.9	120.9				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Sample ID: MB-45354	SampType: MBLK			Units: µg/L		Prep Dat	te: 9/27/2)24	RunNo: 946	691	
Client ID: MBLKW	Batch ID: 45354					Analysis Dat	te: 9/28/2)24	SeqNo: 197	7322	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200									
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	28.0		25.00		112	80	120				
Surr: Toluene-d8	27.1		25.00		108	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.9		25.00		104	80	120				
Sample ID: 2409443-001ADUP	SampType: DUP			Units: µg/L		Prep Dat	te: 9/27/2)24	RunNo: 946	5 91	
Client ID: W05-092324-CW01	Batch ID: 45354					Analysis Dat	te: 9/28/20)24	SeqNo: 197	7325	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.30	0.200						1.304	0.413	30	
Toluene	ND	0.500						0		30	
Ethylbenzene	ND	0.500						0		30	
m,p-Xylene	ND	1.00						0		30	



CLIENT: Fulcrum Environmental

Project: Whitten Oil

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: 2409443-001ADUP	SampType: DUP			Units: µg/L		Prep Da	te: 9/27/20)24	RunNo: 946	691	
Client ID: W05-092324-CW01	Batch ID: 45354					Analysis Da	te: 9/28/20)24	SeqNo: 197	7325	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	27.9		25.00		112	81.7	121.7		0		
Surr: Toluene-d8	27.9		25.00		112	82.2	122.2		0		
Surr: 1-Bromo-4-fluorobenzene	27.3		25.00		109	80.9	120.9		0		

Sample ID: LCS-45369	SampType: LCS			Units: µg/L		Prep Da	te: 9/30/20)24	RunNo: 946	578	
Client ID: LCSW	Batch ID: 45369					Analysis Da	te: 9/30/20)24	SeqNo: 197	7215	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	24.6	0.200	20.00	0	123	80	120				S
Toluene	25.1	0.500	20.00	0	125	80	120				S
Ethylbenzene	21.4	0.500	20.00	0	107	80	120				
m,p-Xylene	43.0	1.00	40.00	0	107	80	120				
o-Xylene	21.5	0.500	20.00	0	107	80	120				
Surr: Dibromofluoromethane	30.1		25.00		121	81.7	121.7				
Surr: Toluene-d8	27.3		25.00		109	82.2	122.2				
Surr: 1-Bromo-4-fluorobenzene	24.1		25.00		96.3	80.9	120.9				

NOTES:

S - Outlying spike recovery observed (high bias). Detections will be qualified with a Q.

Sample ID: MB-45369	SampType: MBLK			Units: µg/L		Prep Da	te: 9/30/2	024	RunNo: 946	678	
Client ID: MBLKW	Batch ID: 45369					Analysis Da	te: 9/30/2	024	SeqNo: 197	7207	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200									
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	23.4		25.00		93.4	80	120				
Surr: Toluene-d8	27.0		25.00		108	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.0		25.00		100	80	120				



Project:

CLIENT: Fulcrum Environmental

Whitten Oil

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: MB-453	SampType: MBLK			Units: µg/L		Prep Date:	: 9/30/202	24	RunNo: 946	578	
Client ID: MBLKW	Batch ID: 45369					Analysis Date:	: 9/30/202	24	SeqNo: 197	7207	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2409443-007ADUP Client ID: W05-092324-MW08	SampType: DUP Batch ID: 45369			Units: µg/L		Prep Da Analysis Da	te: 9/30/20 te: 9/30/20		RunNo: 946 SeqNo: 197		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.86	0.200						2.564	11.1	30	Q
Toluene	0.714	0.500						0.7901	10.1	30	Q
Ethylbenzene	ND	0.500						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	26.1		25.00		104	81.7	121.7		0		
Surr: Toluene-d8	27.7		25.00		111	82.2	122.2		0		
Surr: 1-Bromo-4-fluorobenzene	25.7		25.00		103	80.9	120.9		0		

NOTES:



Sample Log-In Check List

	Work Order Numb	oer: 2409443	
	Date Received:	9/24/2024	9:54:00 AM
	Yes 🗸	No	Not Present
	Yes 🗌	No 🗌	Not Present 🗹
amples?	Yes 🗹	No 🗌	
rature of >2°C to 6°C *	Yes 🖌	No 🗌	
	Yes 🖌	No 🗌	
ted test(s)?	Yes 🖌	No 🗌	
	Yes 🖌	No 🗌	
	Yes	No 🗹	NA 🗌
\$?	Yes	No 🗹	
good condition(unbroken)?	Yes 🖌	No 🗌	
\$?	Yes 🗹	No 🗌	
Chain of Custody?	Yes 🖌	No 🗌	
ested?	Yes 🗹	No 🗌	
rameters, pH e.g.) able to	Yes 🖌	No 🗌	
<u>e)</u>			
cies with this order?	Yes	No 🗌	NA 🖌
Date	e:		
Via:	eMail 🗌 Pr	none 🗌 Fax	In Person
		Date Received: Yes FedEx container/cooler? Yes pals not intact) amples? Yes rature of >2°C to 6°C Yes ted test(s)? Yes ted test(s)? Yes s? Yes good condition(unbroken)? Yes s? Yes Chain of Custody? Yes ested? Yes rameters, pH e.g.) able to Yes Date:	Yes No FedEx No container/cooler? Yes No aamples Yes No rature of >2°C to 6°C Yes No rature of >2°C to 6°C Yes No ted test(s)? Yes No Yes No Yes Yes No

Item Information

Item #	Temp ⁰C
Sample	2.1

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

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	3600 Fremont Ave N.	Chain of Custody Record & Labo	Laboratory Services Agreement
Analytical	Tel: 206-352-3790	Date: 9123124 Page: 1 of 1	Laboratory Project No (internal): 2409443
An Alliance Technical Group Compony	ampany	Project Name: Written 011	Special Remarks:
cient Folcom Environmental	writel	Project No: 244122,00	
Address: ZUT W BOOK And	Z	collected by: Ethican Dulton	2
city, state, Zip: Spokan wa 9920	A 9920	Location: Culville WA	
Telephone: 59-459-9220	20	Report To (PM): Ethan, duction to efficiency of	Disposal: Samples will be disposed in 30 days unless otherwise requested. Retain volume (specify above) Return to client
Emailisi ethen, duries @ efulcrin, 1et		à abby, whitmore @ efulcrim.net	
		AND CONTROL OF	
Sample Name	Sample Sample Type Date Time (Matrix)*	# of (35, 55, 55, 55, 55, 55, 55, 55, 55, 55,	Comments
1 WUS-092324- (WO)	912124 9.39	イメメ	
2 - (WM	10-10		
3 -Mmor	1151,8 (200)		
4 - MWOZ	1240		
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Somu-	♥ 1040		extra vulume QA/QC
00.1			
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ous, B = Bulk,	= Other, P = Product, S = Soil, SD =	O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = St	SW = Storm Water, WW = Waste Water Turn-around Time:
MTCA-5 RCRA-8	tants TAL /	Ag Al As B Ba Be	Se Sr Sn Ti Ti V Zn Standard Next Day
***Anions (Circle): Nitrate Nitrite	Chloride Sulfate Bromide	ide O-Phosphate Fluoride Nitrate+Nitrite	3 Day Same Day
I represent that I am authorized to enter into this Agreement wit to each of the terms on the front and backside of this Agreement.	enter into this Agreement wit d backside of this Agreement.	I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.	2 Day
Relinquished (Signature)	Print Name	Received (Stenature)	Date/Time
Relinquished (Signature)	Print Name	Date/Time Received (Signature) Print	Print Name Date/Time
×		×	