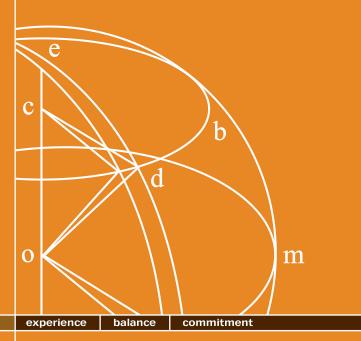


PRELIMINARY SOIL REMEDIATION WORK PLAN

Four Star Supply, Inc. 355 NW State Street Pullman, Washington

Project Number: 223516.00

May 26, 2022



Prepared for:

Four Star Supply Inc. Attn: Kevin McDonnell 355 NW State Street Pullman, Washington 99163

Prepared by:

Travis Trent, CIH, PG Fulcrum Environmental Consulting, Inc. 207 West Boone Avenue Spokane, Washington 99201



Report Title: Preliminary Soil Remediation Work Plan

Project Number: 223516.00

Date: May 26, 2022

Site: Four Star Supply Inc.

355 Northwest State Street

Pullman, Washington

Prepared for: Four Star Supply Inc.

Attn: Kevin McDonnell 355 Northwest State Street Pullman, Washington 99163

Prepared by: Fulcrum Environmental Consulting, Inc.

207 West Boone Avenue Spokane, Washington 99201

509.459.9220

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

Authored by: Date: 05/26/2022

Scott Groat, GIT, Environmental Geologist Fulcrum Environmental Consulting, Inc.

Reviewed by: ______ Date: 05/26/2022

Travis Trent, CIH, PG, Principal

Fulcrum Environmental Consulting, Inc.





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

This Remediation Work Plan has been prepared on behalf of Four Star Supply, Inc. (Four Star) by Fulcrum Environmental Consulting, Inc. (Fulcrum) to describe the remediation activities that will be conducted at the Four Star Property Cleanup located at 355 Northwest State Street in Pullman, Washington (site). See Figure 1 for a general site location map.

The loss area portion of the property has operated as a bulk plant from about 1932 to present day. It is located at the top of a stream



embankment adjacent to the South Fork Palouse River. An April 2022 fuel release from a 10,000-gallon Above Ground Storage Tank (AST) resulted in impact to underlying site soils and near shore river water.

Able Cleanup Technology (Able) of Spokane, Washington responded to the spill event. Sorbent booms and pads were placed in the near shore river water and a series of capture points were hand excavated along the bank to intercept hydrocarbon impacted groundwater before it entered the river. The spill response was supported by staff from Four Star who provided ongoing monitoring and replacement of spill response media.

Concurrent with the Able/Four Star response efforts, the Washington Department of Ecology (Ecology) provided spill response oversight and coordination that was extremely effective in advancing the spill response in ongoing communication with key stakeholders including the Owner, Washington State Department of Fish and Wildlife, City of Pullman, Environmental Protection Agency (EPA), and Army Corp of Engineers. It is Fulcrum's professional opinion that the spill response was professional, effective, and well-coordinated. Spill containment is complete, and the project is now proceeding to the remedial phase. The tanks and secondary containment have been removed. This plan addresses removal of hydrocarbon impacted soils and site restoration activities.

This Soil Remediation Work Plan has been prepared by Travis Trent, a Washington State Licensed Hydrogeologist (LHG) and Certified Industrial Hygienist (CIH) with over 26-years of experience in the remediation of petroleum impacted soils. Relevant professional certifications are presented as Appendix A. This Health and Safety Plan (HSP) is intended to be a dynamic document and may be subject to change based on encountered site conditions.



1.1 Purpose

The purpose of the work plan is to complete remediation of the April 2022 fuel spill in accordance with applicable regulations. Overall objective is to advance the remedial effort in an expeditious manner that is protective of site workers and the environment while maximizing the potential for the final cleanup effort to be eligible for a "No Further Action" determination upon conclusion.

1.2 Pertinent Regulations and Approach

In March of 1989, the Model Toxics Control Act (MTCA) went into effect in Washington State. The MTCA regulations set standards to ensure quality of cleanup and protection of human health and the environment. A major portion of the MTCA regulation (completed in 1991) was the development of numerical cleanup standards and requirements for cleanup actions. Three options were established under MTCA for site specific cleanup levels: Method A, B and C. Method A defines cleanup levels for 25 of the most common hazardous substances found at sites. Method B levels are set using a site risk assessment, which enables consideration of site-specific characteristics. Method C is similar to Method B, however, the individual substance's cancer risk portion of the assessment is set at 1 in 100,000 rather than 1 in 1,000,000.

Ecology's MTCA Method A cleanup tables were developed to provide conservative cleanup levels for non-complex sites. Fulcrum proposes to use Method A cleanup levels as site screening levels during the remedial action. Fulcrum proposes to use Method A cleanup levels as site screening levels during the remedial action with the expectation that Method B may be identified as the final site cleanup standards.

2.0 SITE LOCATION AND DESCRIPTION

The Four Star facility is located at 355 NW State Street in Pullman, Washington. The fuel spill occurred in a bulk fuel storage facility located on the south side of the South Fork Palouse River at the NE corner of Popular and NW State Streets. See Figure 1 for a site location map. According to Google Earth, the site is located at the following Global Positioning Satellite (GPS) coordinates:

46.73251, -114.18119

2.1 General Area of Impact

The remedial work area is identified as the former NW portion of the now removed tank farm and the associated riverbank and river slope. See Figure 2 for a site plan view of the fuel spill





remedial work area. The site is accessible from Northwest State Street in Pullman, Washington and will be secured by a chain-link perimeter fence.

3.0 CHARACTERIZATION

Fulcrum completed two pre-remediation characterization events. During the first event on May 13, 2022, Fulcrum collected soil samples from penetrations through the secondary containment. The objective of this sampling and analysis was to characterize the petroleum contaminated soils for disposal. Removal of the secondary containment was competed on May 18, 2022. On May 19, 2022 Fulcrum completed a second characterization investigation. The second characterization event consisted of trenching through the area of suspect impact to make preliminary determination of the probable extent of contaminant presence. Soils were field screened for contaminant presence using odor, discoloration, and PID readings. Samples were collected and submitted for laboratory analysis to confirm results of field screening.

3.1 Waste Characterization Sampling

On May 13, 2022, Fulcrum conducted an initial characterization event of representative soil located beneath the failed secondary containment. A total of five representative samples were collected. Samples were hand collected directly from exposed near surface soils using clean latex gloves and disposable sampling tools. Samples were collected directly into laboratory provided containers, labeled in indelible ink with unique identification numbers, and placed in a cooler on ice for transport to Test America in Spokane, Washington, for analysis. The characterization samples were analyzed for diesel, heavy oil, and gasoline range petroleum hydrocarbons, benzene, ethylbenzene, toluene, xylene (BTEX), and lead. Lead concentrations were identified in one sample above the acceptance threshold of the selected disposal site (100 ppm total lead). The sample was submitted for further analysis by TCLP methodology. A summary of the initial characterization soil sample results is presented below in Table 1. Complete analytical results are presented in Appendix B. See Figure 3 for the characterization soil sample location map.

Table 1: May 13, 2022 – Soil Analytical Results

			Results (ppm)								
Location	Sample Number	NW	ГРН-Dx	NWTPH-Gx		ВТ	EX		Total	Leachable	
Location	Sumple Number	Diesel	Heavy Oil	Gasoline	Benzene	Ethyl- benzene	Toluene	Xylene	Lead	Lead	
Northwest area	FS-051322-01	38	ND	ND	ND	ND	ND	ND	24	NA	
West area	FS-051322-02	ND	ND	ND	ND	ND	ND	ND	19	NA	
Southwest area	FS-051322-03	ND	ND	ND	ND	ND	ND	ND	160	ND	
South area	FS-051322-04	34	ND	ND	ND	ND	ND	ND	16	NA	
North area	FS-051322-05	3,700	ND	5,200	ND	0.83	0.49	8.4	ND	NA	
MTCA Method A Cleanup		2,000		100	0.03	6.0	7.0	9.0	250	5	



Bold Concentrations above regulatory reference levels

ND Non-detect NA Not Analyzed

Laboratory analytical identified detectable concentrations of diesel and gasoline range petroleum hydrocarbons, ethylbenzene, toluene, xylene, and total lead. Only diesel and gasoline range hydrocarbons were above applicable regulatory thresholds.

3.2 Site Characterization Sampling

On May 19, 2022, Fulcrum completed a second characterization investigation. This event consisted of trenching through the area of suspect impact to make a preliminary determination of the probable extent of contaminant presence. Soils were field screened for contaminant presence using odor, discoloration, and PID readings. Samples were collected and submitted for laboratory analysis to confirm results of field screening. A total of 8 representative samples were collected. Samples were hand collected directly from exposed near surface soils or from the excavator bucket using clean latex gloves and disposable sampling tools. Samples were collected directly into laboratory provided containers, labeled in indelible ink with unique identification numbers, and placed in a cooler on ice for transport to Test America in Spokane, Washington, for analysis. The samples were analyzed for diesel, heavy oil, and gasoline range petroleum hydrocarbons, benzene, ethylbenzene, toluene, xylene (BTEX), and lead. A summary of May 19, 2022, characterization soil sample results is presented below in Table 2. Complete analytical results are presented in Appendix B. See Figure 3 for the characterization soil sample location map.

Table 2: May 19, 2022 - Soil Analytical Results

Results (ppm)								
Sample Number	NWTI	PH-Dx	NWTPH-Gx					
Sample Number	Diesel	Heavy Oil	Gasoline	Benzene	Ethyl- benzene	Toluene	Xylene	Lead
FS-051922-01-2.0	9,600	ND	250	ND	ND	ND	ND	170
FS-051922-02-3.0	28,000	770	6,600	ND	ND	ND	ND	79
FS-051922-03-2.0	2,900	ND	800	ND	ND	ND	0.59	ND
FS-051922-04-2.0	3,600	ND	2,000	ND	ND	ND	ND	54
FS-051922-05-2.0	260	ND	ND	ND	ND	ND	ND	170
FS-051922-06-2.0	2,400	180	73	ND	ND	ND	1.5	46
FS-051922-07-6.0	93	ND	710	ND	ND	ND	ND	ND
FS-051922-08-8.0	4,900	ND	3.900	ND	0.50	ND	4.6	14
MTCA Method A Cleanup	2,0	000	100	0.03	6.0	7.0	9.0	250

Bold Concentrations above regulatory reference levels

ND Non-detect



Laboratory analytical identified detectable concentrations of diesel and gasoline range petroleum hydrocarbons, ethylbenzene, xylene, and total lead. Only diesel and gasoline range hydrocarbons were above applicable regulatory thresholds.

Fulcrum collected a total of 13 characterization samples. Analytical results indicate that only diesel and gasoline range petroleum hydrocarbons are present at levels of regulatory significance within the fuel spill impacted soils.

Although the fuel spill was reportedly diesel fuel, Fulcrum recognizes that the point of release is a bulk fuel storage facility which has operated at the location for over 90 years. Potential exists for the diesel fuel to have contaminated soils that have been previously impacted by prior releases. As such, Fulcrum conducted additional analysis to determine the full range of potential contaminants within site soils impacted by the April 2022 fuel release.

4.0 REMEDIAL DESIGN

Based on observed conditions at the site, Fulcrum's conceptual model anticipates that the small release of diesel fuel leaked from an onsite AST and pooled in the concrete secondary containment until it encountered a seam, crack, or similar weakness in the containment and then flowed down into the underlying soil. The reported volume of release is less than 365 gallons. The fuel release is anticipated to have flowed vertically down to groundwater estimated to be at a similar elevation to the adjacent river. Some dispersion/diffusion is anticipated in the site soils with extent



likely dependent upon presence of areas of clay/silt or other fines that might present a lower permeability zone. Upon encountering groundwater, the diesel is expected to act as a LNAPL moving primarily through advective transport along the groundwater gradient towards the river. The short-time period between when the release was identified and indications of impact to the river (observed sheen), supports this conceptual model. See Figure 4 for a cross section view of the conceptual model. It should be noted that Fulcrum's conceptual model does anticipate that the released diesel fuel may have passed through soils that were impacted by historic releases resulting in a broader range of potential contaminants. Based on the above outlined conceptual model, adverse impact to the river is the primary exposure pathway of concern for this release. If uncontrolled and not remediated, potential exists for contact by people and aquatic organisms.



4.1 Model Remedy Selection

Remedial Action Objectives are narrative goals for a cleanup action that address how the cleanup fits into the overall MTCA cleanup process. For this project Fulcrum has identified Ecology's *Guidance for Remediation of Petroleum Contaminated Sites* (2016 Revision). The following Remedial Action Objectives have been identified for the primary contaminants found at the Site:

- 1. Removal of all fuel spill contaminated soils to the extent feasible until MTCA cleanup levels have been achieved. If areas are identified where Method A cleanup values cannot be achieved, alternate remedial strategies as allowed under applicable regulations will be evaluated.
- 2. If needed, placement of monitoring wells following removal of contaminated soil to evaluate potential for residual groundwater impact.

The above proposed remedy presents a permanent solution to the maximum extent practical, and it can be achieved in a reasonable time frame.

5.0 REMEDIATION ACTIVITIES

Following is a brief summation of remedial activities anticipated at the site.

Phase 1 – Spill Response and Containment (Complete) – Capture any free product, place booms and sorbent materials in the impacted portion of the adjacent river shoreline. Hand-excavate capture points along the shoreline and place sorbent materials to intercept contaminants prior to the river's edge.

Phase 2 - Remedial Preparation (Complete) – Empty and remove the ASTs, remove the fuel lines traversing across the river, and remove the concrete secondary containment.

Phase 3 – Characterization (In-Progress) – Collection and analysis of waste characterization samples and initial characterization of extent and nature of subsurface contaminants. Sampling is complete, final analysis is in progress. Based on characterization results, the soil is reportedly suitable for disposal as petroleum contaminated soil at the Roach Construction Land Farm in Genesee, Idaho.

Phase 4 – Bulk Soil Removal (In-Progress) - Removal of contaminated soil from beneath the former bulk fuel storage facility. Fulcrum will oversee removal of contaminated soil. Able will perform soil excavation services and will transport the soil to a nearby land farm permitted to accept petroleum contaminated soil as characterized at the site. Libby Environmental will provide an onsite laboratory to provide analysis. Phase 4 intent is to remove all site soils contaminated by the release, to the extent feasible, without risking adverse impact to the road, bridge, or nearby building. Excavation will proceed based on field screening (PID, discoloration, sheen) and then will be fine-tuned based on sample analysis by the onsite laboratory. Fulcrum anticipates that this phase of work will include excavation past the current groundwater elevation. Preliminary bulk soil removal indicates that it will not be feasible to remove all contaminated soil from the site without potential adverse impact to the adjacent building, bridge, or roads. Bulk soil removal will focus



on the area proximal to the river to allow for placement of a clay aquitard (see Phase 5) and the area of near surface soil impacted by the 2022 fuel spill.

Excavation work during this phase will specifically not impact the riverbank which will be maintained as a natural barrier between the river and the work area. See Figure 5 for a graphic representation of the Phase 4 work area. Turbidity curtain will be staged on site during Phase 4 work in the event that the riverbank becomes unintentionally destabilized during Phase 4 excavation activities.

Phase 5 – Riverbank Impact Removal Option – Depending on results of Phase 4 excavation activities, the Project Team may determine that removal of the impacted area of streambank is advantageous. If so, following completion of Phase 4 activities the excavation area will be rebuilt with clean fill to create a stable working platform to access the riverbank work area. A floating turbidity curtain will be placed just past the existing sorbent booms, parallel to the shoreline to provide a level of protection for the river against sediment load generated during riverbank removal. See Figure 6 for a graphic presentation of the Phase 5 work area. Contaminated sediments will be removed from beneath the riverbank and confirmation samples will be collected for analysis.

Phase 6 – Site Restoration – Following removal of contaminated soils, the excavation will be infilled with like material to what was removed and finished with gravel surfacing. In consideration of the likely presence of contaminants that are not fully excavated, the excavation area immediately proximal to the river will be infilled with an area of compact clay to provide an aquitard between the site and the river. The planned compact clay fill area is estimated at 10-12 feet in depth below the river shoreline, 10-12 feet south from the shoreline, and extending approximately 40 feet along the shoreline. The riverbank and slope will be rebuilt to the pre-existing position and slope and armored with two- to three-foot diameter basalt boulders to water's edge, then top coated with 12-inch minus basalt cobble. The slope and bank will be allowed to revegetate naturally to match the surrounding conditions. See Figure 7 for a graphic representation of planned reconstruction.

Phase 7 – Groundwater Investigation – Fulcrum anticipates that presence of diesel impact to groundwater as evidenced by the capture points along the river's edge may trigger a requirement for a groundwater investigation. If needed, specific details and locations of monitoring well placement and construction will be determined based on observed conditions during the excavation and rebuild process. Generally, Fulcrum would anticipate placement of one up gradient well and two wells in the area of anticipated groundwater impact. All three (3) wells would likely be installed to a depth of 5-10 feet past current groundwater level with a screened interval and construction detail appropriate to characterize groundwater in the near surface unconfined alluvial aquifer. Depending on final site remedial condition, some manner of monitoring wells may be considered for placement on the stream bank as well.

6.0 VALIDATION SAMPLING

Fulcrum will conduct site sampling in accordance with the project specific Sampling and Analysis Plan (SAP). All final verification samples will be analyzed for diesel-range and gasoline-range petroleum hydrocarbons, and BTEX using an appropriately certified laboratory.



Confirmation sampling will be conducted as follows:

6.1 Confirmation Soil Sampling

Final discrete soil samples will be collected from the specific location that, based on field screening, suggests the highest potential for the identified contaminants of concern. Based on limitations in contaminated soil removal as outlined above, Fulcrum anticipates that it may not be possible to excavate to clean sidewalls and pit bottoms in all locations. If so, excavation extents will still be sampled to document site condition.

6.1.1 Pit Bottom Samples

- A minimum of four (4) samples will be collected from the excavation pit bottom.
- Where the total area of the exaction exceeds 500 square feet, then one (1) additional pit bottom sample will be collected for every 1,000 additional square feet.

Fulcrum estimates that up to approximately 6-8 confirmation samples will be collected form the excavation pit bottom.

6.1.2 Sidewall Samples

A minimum of 12 samples will be collected from the excavation sidewalls. Fulcrum anticipates collection of four samples each for the east, west, and south sidewalls (the north sidewall area constitutes the riverbank slope that will be removed). Samples will be collected from heights and locations identified as most suspect for presence of contaminants of concern.



FIGURES





LEGEND



Flow direction



South Fork Palouse River



Approximate excavation area



Staging and storage area

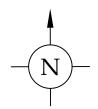


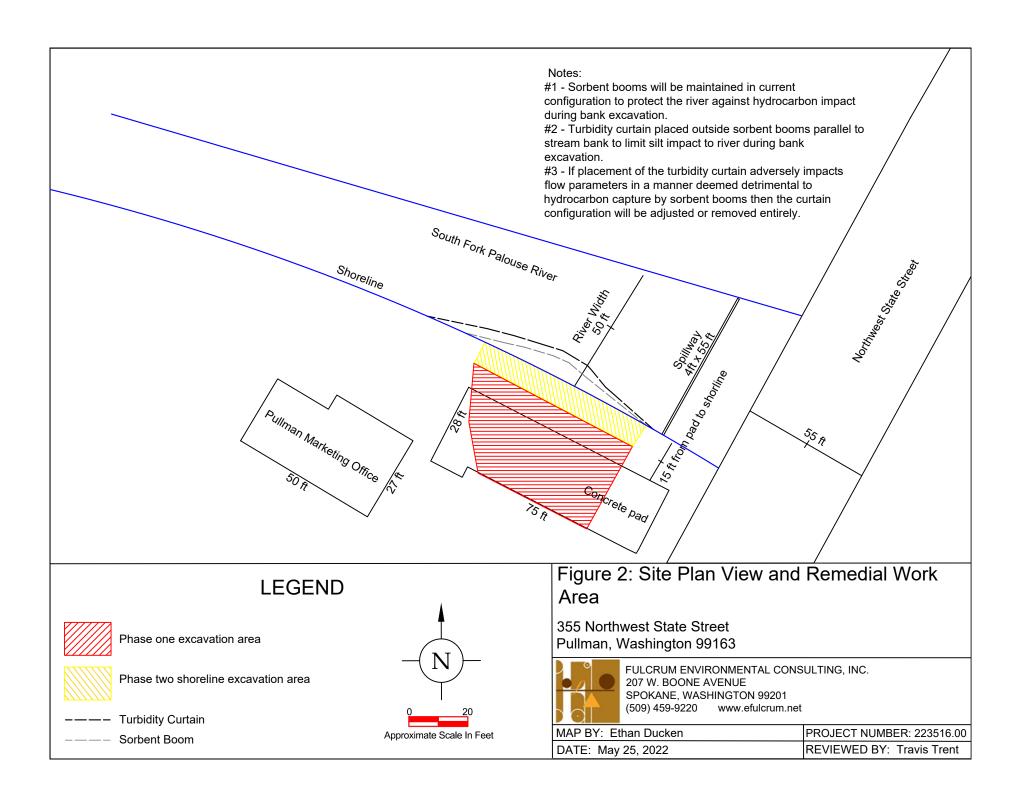
Figure 1: General Site Location Map

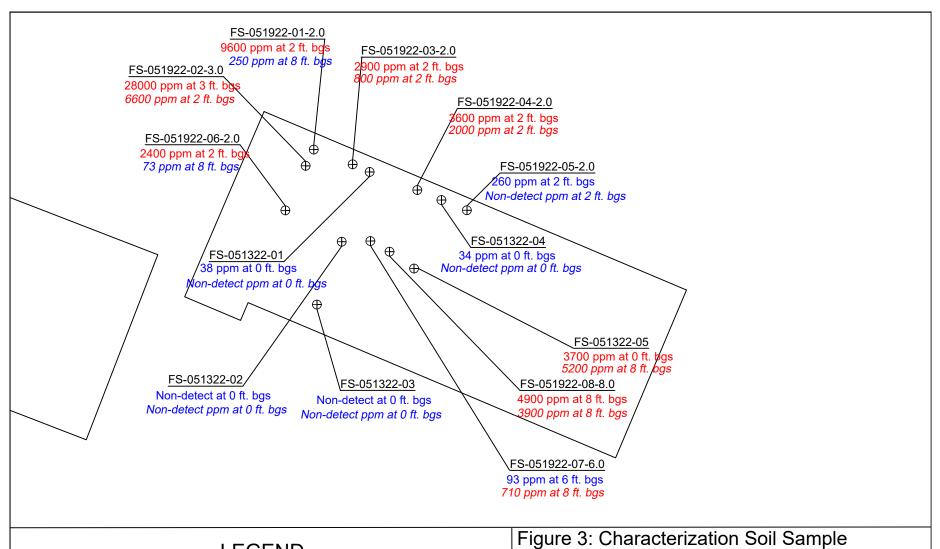
355 Northwest State Street Pullman, Washington 99163



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

MAP BY: Ethan Ducken	PROJECT NUMBER: 223516.00			
DATE: May 25, 2022	REVIEWED BY: Scott Groat			





LEGEND

Characterization sample ID
Diesel Concentration Above / Below Cleanup
Gasoline Concentration Above / Below Cleanup

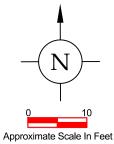


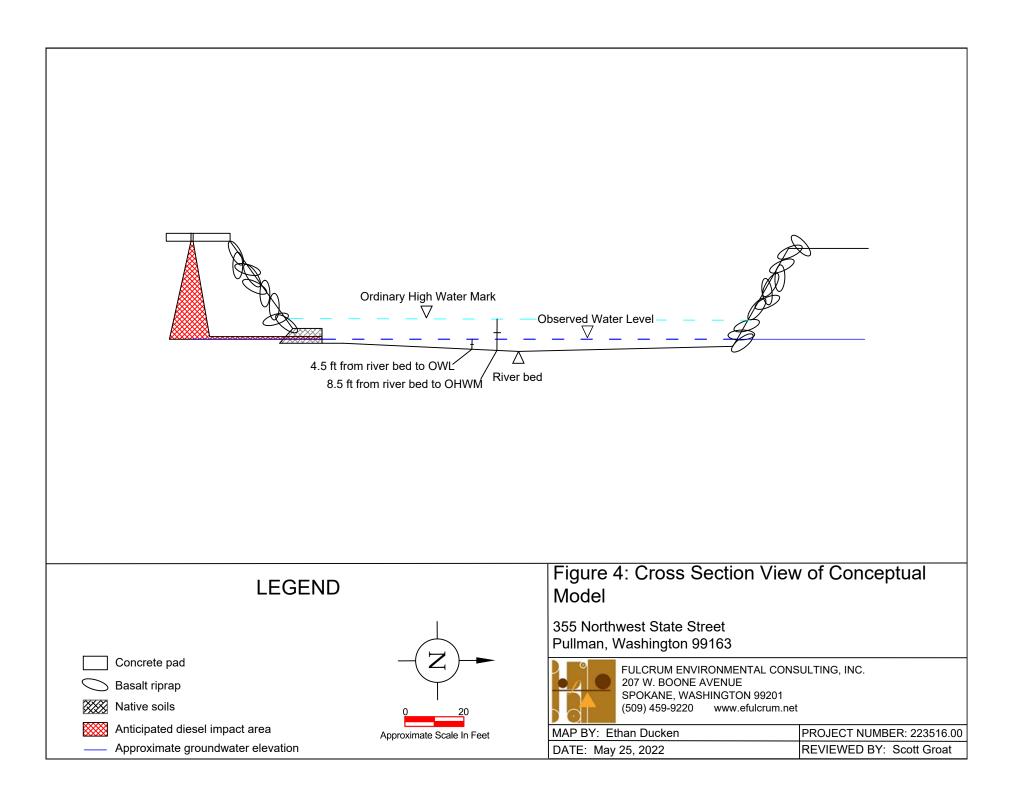
Figure 3: Characterization Soil Sample Location Map

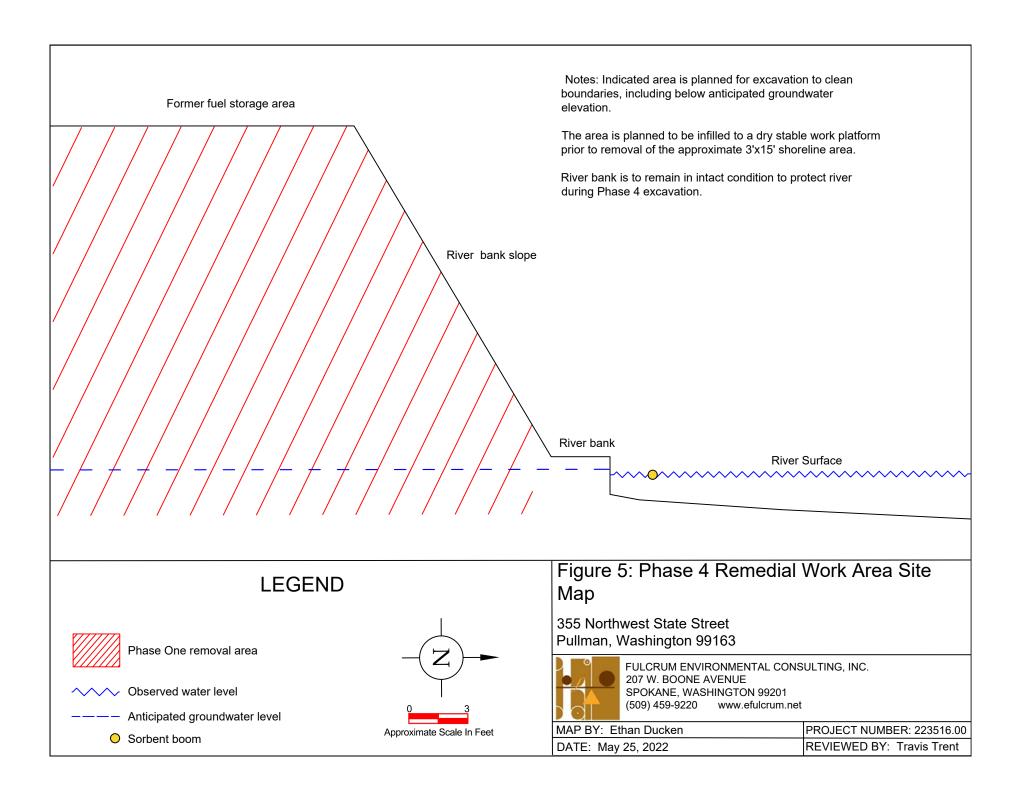
355 Northwest State Street Pullman, Washington 99163



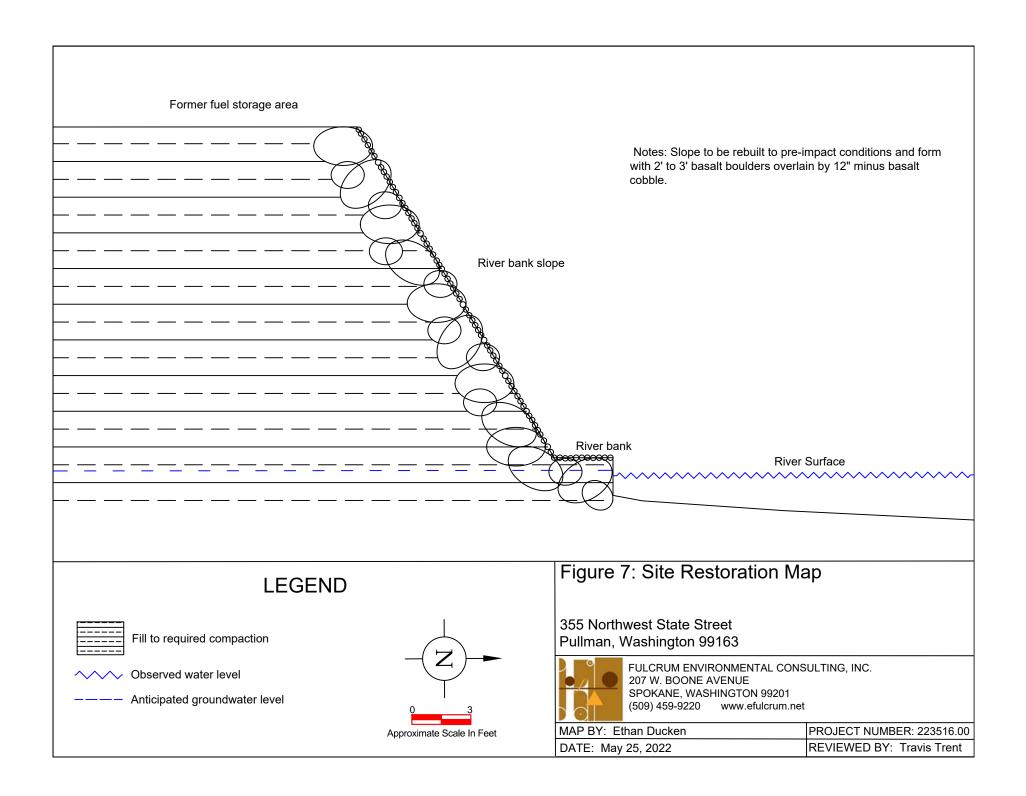
FULCRUM ENVIRONMENTAL CONSULTING, INC. 207 W. BOONE AVENUE SPOKANE, WASHINGTON 99201 (509) 459-9220 www.efulcrum.net

MAP BY: Ethan Ducken	PROJECT NUMBER: 223516.00			
DATE: May 25, 2022	REVIEWED BY: Travis Trent			





Notes: The Phase 4 excavation area will be filled and compacted to above the water table prior to Phase 5 excavation. Excavation equipment work area River bank River Surface Figure 6: Phase 5 Remedial Work Area Site **LEGEND** Мар Fill to required compaction 355 Northwest State Street Phase two shoreline excavation area Pullman, Washington 99163 FULCRUM ENVIRONMENTAL CONSULTING, INC. Observed water level 207 W. BOONE AVENUE SPOKANE, WASHINGTON 99201 Anticipated groundwater level (509) 459-9220 www.efulcrum.net Sorbent boom MAP BY: Ethan Ducken PROJECT NUMBER: 223516.00 Approximate Scale In Feet Turbidity curtain DATE: May 25, 2022 REVIEWED BY: Travis Trent





APPENDIX A

Applicable 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 01/08/2002 **Issue Date**

06/06/2022

Expiration Date

Teresa Berntsen

Teresa Berntsen, Director

The Board for Global EHS Credentialing (BGC)

through its vested authority, hereby confirms that

Travis L. Trent

has met all requirements of education, experience, and examination, and on-going maintenance set forth through the BGC's American Board of Industrial Hygiene®'s (ABIH®) credentialing division for re-certification in the Comprehensive Practice of Industrial Hygiene and is thereby conferred the credential of

Certified Industrial Hygienist® (CIH®)

The aforenamed individual is given all rights, privileges, and responsibilities as both a diplomate of the BGC and holder of the CIH credential, provided that the credential is not suspended or revoked, and it is renewed annually. Moreover, the holder must meet all recertification requirements, including the obligation to practice ethically as prescribed by the BGC.





Credential Number: 9

9850 CP

Award Date:

November 19, 2010

Expiration Date:

June 1, 2026

Cynthia Hanko, CIH

Chair of the Board of Directors

Ulric K. Chung, MCS, PhD

Chief Executive Officer and Secretary



APPENDIX B

Laboratory Analytical Results



Environment Testing America

ANALYTICAL REPORT

Eurofins Spokane 11922 East 1st Ave Spokane, WA 99206 Tel: (509)924-9200

Laboratory Job ID: 590-17521-2

Laboratory Sample Delivery Group: Four Star Client Project/Site: 223516.00/Four Star

For:

Fulcrum Environmental 207 West Boone Avenue Spokane, Washington 99201

Attn: Scott Groat

dancue trington

Authorized for release by: 5/23/2022 6:13:53 PM

Randee Arrington, Lab Director

(509)924-9200

Randee.Arrington@et.eurofinsus.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fulcrum Environmental Project/Site: 223516.00/Four Star

Laboratory Job ID: 590-17521-2 SDG: Four Star

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3

6

8

9

10

Case Narrative

Client: Fulcrum Environmental

Project/Site: 223516.00/Four Star

Job ID: 590-17521-2

SDG: Four Star

Job ID: 590-17521-2

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 5/16/2022 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.2° C.

Receipt Exceptions

The following sample was activated for 6010D TCLP Lead analysis by the client on 05/19/22: FS-051322-03 (590-17521-3). This analysis was not originally requested on the chain-of-custody (COC).

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

9

3

6

0

9

10

11

19

Sample Summary

Client: Fulcrum Environmental Project/Site: 223516.00/Four Star Job ID: 590-17521-2

SDG: Four Star

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-17521-3	FS-051322-03	Solid	05/13/22 15:30	05/16/22 14:55

Definitions/Glossary

Client: Fulcrum Environmental Job ID: 590-17521-2 Project/Site: 223516.00/Four Star

SDG: Four Star

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.					
n	Listed under the "D" column to designate that the result is reported on a dry weight basis					
%R	Percent Recovery					
CFL	Contains Free Liquid					
CFU	Colony Forming Unit					
CNF	Contains No Free Liquid					
DER	Duplicate Error Ratio (normalized absolute difference)					

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DL, RA, RE, IN

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Spokane

Client Sample Results

Client: Fulcrum Environmental Job ID: 590-17521-2 Project/Site: 223516.00/Four Star SDG: Four Star

Client Sample ID: FS-051322-03 Lab Sample ID: 590-17521-3

Date Collected: 05/13/22 15:30 **Matrix: Solid** Date Received: 05/16/22 14:55

Method: 6010D - Metals (ICP) - TCLP								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Lead	ND	0.060	ma/l		05/23/22 12:08	05/23/22 17:11	1

QC Sample Results

Client: Fulcrum Environmental Job ID: 590-17521-2 Project/Site: 223516.00/Four Star SDG: Four Star

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 590-36207/1-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 36214** Prep Batch: 36207

LCS LCS %Rec Spike Added Analyte Result Qualifier Unit D %Rec Limits 80 - 120 Lead 1.00 1.03 mg/L 103

Lab Sample ID: LB 590-36174/1-B **Client Sample ID: Method Blank**

Matrix: Solid Prep Type: TCLP Analysis Batch: 36214 Prep Batch: 36207 LB LB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed

0.060 mg/L 05/23/22 12:08 05/23/22 16:05 Lead ND

Lab Chronicle

Client: Fulcrum Environmental Job ID: 590-17521-2 Project/Site: 223516.00/Four Star SDG: Four Star

Client Sample ID: FS-051322-03

Lab Sample ID: 590-17521-3 Date Collected: 05/13/22 15:30 Matrix: Solid Date Received: 05/16/22 14:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.43 g	2000.22 mL	36174	05/19/22 18:00	AMB	TAL SPK
TCLP	Prep	3010A			50 mL	50 mL	36207	05/23/22 12:08	JSP	TAL SPK
TCLP	Analysis	6010D		1			36214	05/23/22 17:11	JSP	TAL SPK

Laboratory References:

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Fulcrum Environmental Job ID: 590-17521-2
Project/Site: 223516.00/Four Star SDG: Four Star

Laboratory: Eurofins Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-23

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Method Summary

Client: Fulcrum Environmental Project/Site: 223516.00/Four Star Job ID: 590-17521-2

SDG: Four Star

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	TAL SPK
1311	TCLP Extraction	SW846	TAL SPK
3010A	Preparation, Total Metals	SW846	TAL SPK

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

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reservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3	5=NaOF	; 6= Other				1			///			11					lanan than 4 man	41-1	
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ne Comments Section if the lab is to dispose of the sample.						_													
Non-Hazard Flammable Skin Irritant	Poiso	n B	Unkr	own		上	Retur	n to Client		Πpi	sposal b	/ Lab		ΠA	chive fo	or	Months		
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Form No. CA-C-WI-002, Rev 4.35, dated 10/6/2020

Login Sample Receipt Checklist

Client: Fulcrum Environmental

Job Number: 590-17521-2

SDG Number: Four Star

List Source: Eurofins Spokane

5/23/2022

Login Number: 17521 List Number: 1

Creator: Vaughan, Madison 1

Creator: Vaugnan, Madison 1		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Spokane 11922 East 1st Ave Spokane, WA 99206 Tel: (509)924-9200

Laboratory Job ID: 590-17521-1

Laboratory Sample Delivery Group: Four Star Client Project/Site: 223516.00/Four Star

For:

Fulcrum Environmental 207 West Boone Avenue Spokane, Washington 99201

Attn: Scott Groat

5/18/2022 3:42:45 PM

Authorized for release by:

Randee Arrington, Lab Director

(509)924-9200

Randee.Arrington@et.eurofinsus.com

Review your project results through

EOL

Have a Question?

Ask
The
Expert

Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Client: Fulcrum Environmental Project/Site: 223516.00/Four Star Laboratory Job ID: 590-17521-1 SDG: Four Star

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Case Narrative

Client: Fulcrum Environmental
Project/Site: 223516.00/Four Star

Job ID: 590-17521-1
SDG: Four Star

Job ID: 590-17521-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 5/16/2022 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.2° C.

GC/MS VOA

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 590-36146 and analytical batch 590-36144 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: Surrogate recovery for the following sample was outside control limits: FS-051322-05 (590-17521-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method NWTPH-Dx: Surrogate recovery for the following sample was outside control limits: FS-051322-05 (590-17521-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010D: The post digestion spike % recovery for Lead associated with batch 590-36151 was below the lower control limit. The associated sample is: (590-17521-A-1-A PDS).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Sample Summary

Client: Fulcrum Environmental Project/Site: 223516.00/Four Star Job ID: 590-17521-1

SDG: Four Star

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-17521-1	FS-051322-01	Solid	05/13/22 15:00	05/16/22 14:55
590-17521-2	FS-051322-02	Solid	05/13/22 15:15	05/16/22 14:55
590-17521-3	FS-051322-03	Solid	05/13/22 15:30	05/16/22 14:55
590-17521-4	FS-051322-04	Solid	05/13/22 15:45	05/16/22 14:55
590-17521-5	FS-051322-05	Solid	05/13/22 16:00	05/16/22 14:55

Definitions/Glossary

Job ID: 590-17521-1 Client: Fulcrum Environmental Project/Site: 223516.00/Four Star SDG: Four Star

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier **Qualifier Description**

F5 Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is <

the upper reporting limits for both.

S1+ Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) **RFR**

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Client: Fulcrum Environmental
Project/Site: 223516.00/Four Star

Client Sample ID: FS-051322-01

Date Collected: 05/13/22 15:00

Date Received: 05/16/22 14:55

Lab Sample ID: 590-17521-1

Matrix: Solid

SDG: Four Star

Percent Solids: 80.5

Job ID: 590-17521-1

Method: 8260D - Volatile O Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		MDL					DII Fac
Benzene	ND		0.027		mg/Kg	₩	05/17/22 11:33	05/17/22 12:56	1
Ethylbenzene	ND		0.14		mg/Kg	☼	05/17/22 11:33	05/17/22 12:56	1
m,p-Xylene	ND		0.54		mg/Kg	☼	05/17/22 11:33	05/17/22 12:56	1
o-Xylene	ND		0.27		mg/Kg	₽	05/17/22 11:33	05/17/22 12:56	1
Toluene	ND		0.14		mg/Kg	₩	05/17/22 11:33	05/17/22 12:56	1
Xylenes, Total	ND		0.81		mg/Kg	☼	05/17/22 11:33	05/17/22 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 129				05/17/22 11:33	05/17/22 12:56	1
4-Bromofluorobenzene (Surr)	104		76 - 122				05/17/22 11:33	05/17/22 12:56	1
Dibromofluoromethane (Surr)	94		80 - 120				05/17/22 11:33	05/17/22 12:56	1
Toluene-d8 (Surr)	111		80 - 120				05/17/22 11:33	05/17/22 12:56	1

Method: NWTPH-Gx - North	rwest - Volatile	Petroleu	m Products (GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.8		mg/Kg		05/17/22 11:33	05/17/22 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		41.5 - 162				05/17/22 11:33	05/17/22 12:56	

Method: NWTPH-Dx - Northwe	est - Semi-V	olatile Pet	roleum Prodi	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	38		12		mg/Kg		05/17/22 12:50	05/17/22 19:45	1
Residual Range Organics (RRO) (C25-C36)	ND		30		mg/Kg	₩	05/17/22 12:50	05/17/22 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	92		50 - 150				05/17/22 12:50	05/17/22 19:45	1
n-Triacontane-d62	97		50 - 150				05/17/22 12:50	05/17/22 19:45	1
Method: 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

	Lead	24	13	mg/Kg	□ · · · · · · · · · · · · · · · · · · ·
Client Sample ID: FS-051322-02					Lab Sample ID: 590-17521-2
	Date Collected: 05/13/22 15:15				Matrix: Solid
	Date Received: 05/16/22 14:55				Percent Solids: 80.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	MD	F1 F2	0.030		mg/Kg	<u></u>	05/17/22 11:33	05/17/22 13:40	1
Ethylbenzene	ND	F1 F2	0.15		mg/Kg	₩	05/17/22 11:33	05/17/22 13:40	1
m,p-Xylene	ND	F1	0.59		mg/Kg	☆	05/17/22 11:33	05/17/22 13:40	1
o-Xylene	ND	F1 F2	0.30		mg/Kg	₩	05/17/22 11:33	05/17/22 13:40	1
Toluene	ND	F1	0.15		mg/Kg	₩	05/17/22 11:33	05/17/22 13:40	1
Xylenes, Total	ND		0.89		mg/Kg	☼	05/17/22 11:33	05/17/22 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 129				05/17/22 11:33	05/17/22 13:40	1
4-Bromofluorobenzene (Surr)	104		76 - 122				05/17/22 11:33	05/17/22 13:40	1
Dibromofluoromethane (Surr)	88		80 - 120				05/17/22 11:33	05/17/22 13:40	1

Eurofins Spokane

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5/18/2022

Client: Fulcrum Environmental Job ID: 590-17521-1 Project/Site: 223516.00/Four Star SDG: Four Star

Client Sample ID: FS-051322-02

Lab Sample ID: 590-17521-2 Date Collected: 05/13/22 15:15

Matrix: Solid

Date Received: 05/16/22 14:55 Percent Solids: 80.7

Method: 8260D	 Volatile Organic Compounds 	s by GC/MS (Continued)
---------------	--	------------------------

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	110	80 - 120	05/17/22 11:33	05/17/22 13:40	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)		
	Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND	7.4	mg/Kg	<u></u>	05/17/22 11:33	05/17/22 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared A	nalyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		41.5 - 162	05/17/22 11:33 05/1	7/22 13:40	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND	12		mg/Kg	 #	05/17/22 12:50	05/17/22 20:26	1
Residual Range Organics (RRO) (C25-C36)	ND	30		mg/Kg	☼	05/17/22 12:50	05/17/22 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	87		50 - 150	05/17/22 12:50	05/17/22 20:26	1
n-Triacontane-d62	94		50 - 150	05/17/22 12:50	05/17/22 20:26	1

Method: 6010D - Metals (ICP)

Analyte	Result Qua	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	19	13	mg/Kg	<u></u>	05/17/22 10:24	05/17/22 14:41	5

Client Sample ID: FS-051322-03 Lab Sample ID: 590-17521-3

Date Collected: 05/13/22 15:30 **Matrix: Solid** Date Received: 05/16/22 14:55

Method: 8260D - Volatile Organic Compounds by GC/MS

Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
ND ND	0.030	mg/Kg	-	05/17/22 11:33	05/17/22 14:45	1
ND	0.15	mg/Kg	₩	05/17/22 11:33	05/17/22 14:45	1
ND	0.59	mg/Kg	₩	05/17/22 11:33	05/17/22 14:45	1
ND	0.30	mg/Kg	₩	05/17/22 11:33	05/17/22 14:45	1
ND	0.15	mg/Kg	₩	05/17/22 11:33	05/17/22 14:45	1
ND	0.89	mg/Kg	₩	05/17/22 11:33	05/17/22 14:45	1
	ND ND ND ND ND	ND 0.030 ND 0.15 ND 0.59 ND 0.30 ND 0.15	ND 0.030 mg/Kg ND 0.15 mg/Kg ND 0.59 mg/Kg ND 0.30 mg/Kg ND 0.15 mg/Kg	ND 0.030 mg/Kg ☆ ND 0.15 mg/Kg ☆ ND 0.59 mg/Kg ☆ ND 0.30 mg/Kg ☆ ND 0.15 mg/Kg ☆	ND 0.030 mg/Kg © 05/17/22 11:33 ND 0.15 mg/Kg © 05/17/22 11:33 ND 0.59 mg/Kg © 05/17/22 11:33 ND 0.30 mg/Kg © 05/17/22 11:33 ND 0.15 mg/Kg © 05/17/22 11:33 ND 0.15 mg/Kg © 05/17/22 11:33	ND 0.030 mg/Kg □ 05/17/22 11:33 05/17/22 14:45 ND 0.15 mg/Kg □ 05/17/22 11:33 05/17/22 14:45 ND 0.59 mg/Kg □ 05/17/22 11:33 05/17/22 14:45 ND 0.30 mg/Kg □ 05/17/22 11:33 05/17/22 14:45 ND 0.15 mg/Kg □ 05/17/22 11:33 05/17/22 14:45 ND 0.15 mg/Kg □ 05/17/22 11:33 05/17/22 14:45

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100	75 - 129	05/17/22 11:33	05/17/22 14:45	1
4-Bromofluorobenzene (Surr)	104	76 - 122	05/17/22 11:33	05/17/22 14:45	1
Dibromofluoromethane (Surr)	101	80 - 120	05/17/22 11:33	05/17/22 14:45	1
Toluene-d8 (Surr)	101	80 - 120	05/17/22 11:33	05/17/22 14:45	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		7.4		mg/Kg	 	05/17/22 11:33	05/17/22 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		41.5 - 162				05/17/22 11:33	05/17/22 14:45	1

2

Client: Fulcrum Environmental Project/Site: 223516.00/Four Star

SDG: Four Star

Client Sample ID: FS-051322-03

Method: 8260D - Volatile Organic Compounds by GC/MS

Date Collected: 05/13/22 15:30 Date Received: 05/16/22 14:55

Lead

Lab Sample ID: 590-17521-3

Matrix: Solid

Percent Solids: 80.3

Job ID: 590-17521-1

Method: NWTPH-Dx - Northwe	st - Semi-V	olatile Pet	roleum Pro	ducts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		12		mg/Kg	*	05/17/22 12:50	05/17/22 20:47	1
Residual Range Organics (RRO) (C25-C36)	ND		30		mg/Kg	₩	05/17/22 12:50	05/17/22 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	95		50 - 150				05/17/22 12:50	05/17/22 20:47	1
n-Triacontane-d62	103		50 - 150				05/17/22 12:50	05/17/22 20:47	1
Method: 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	160		14		mg/Kg	— <u></u>	05/17/22 10:24	05/17/22 14:57	5

Client Sample ID: FS-051322-04 Lab Sample ID: 590-17521-4

Date Collected: 05/13/22 15:45

Matrix: Solid
Date Received: 05/16/22 14:55

Percent Solids: 82.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.034		mg/Kg	<u></u>	05/17/22 11:33	05/17/22 15:29	1
Ethylbenzene	ND		0.17		mg/Kg	≎	05/17/22 11:33	05/17/22 15:29	1
m,p-Xylene	ND		0.68		mg/Kg	₩	05/17/22 11:33	05/17/22 15:29	1
o-Xylene	ND		0.34		mg/Kg	≎	05/17/22 11:33	05/17/22 15:29	1
Toluene	ND		0.17		mg/Kg	☆	05/17/22 11:33	05/17/22 15:29	1
Xylenes, Total	ND		1.0		mg/Kg	₩	05/17/22 11:33	05/17/22 15:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 129				05/17/22 11:33	05/17/22 15:29	1
4-Bromofluorobenzene (Surr)	102		76 - 122				05/17/22 11:33	05/17/22 15:29	1
Dibromofluoromethane (Surr)	94		80 - 120				05/17/22 11:33	05/17/22 15:29	1
Toluene-d8 (Surr)	106		80 - 120				05/17/22 11:33	05/17/22 15:29	1
Method: NWTPH-Gx - Northw Analyte Gasoline		Qualifier	8.5	MDĹ	Unit mg/Kg	D □ □	Prepared 05/17/22 11:33	Analyzed 05/17/22 15:29	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		41.5 - 162				05/17/22 11:33		1
Method: NWTPH-Dx - Northwe	est - Semi-V	olatile Pe	troleum Prodi	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	34		12		mg/Kg	<u></u>	05/17/22 12:50	05/17/22 21:07	1
Residual Range Organics (RRO)	ND		30		mg/Kg	÷	05/17/22 12:50	05/17/22 21:07	
(C25-C36)	ND		30		9/. 19	*	00/11/22 12:00		1
(C25-C36)	%Recovery	Qualifier	Limits			**	Prepared	Analyzed	·
0 0 ,		Qualifier			9/1.9	**		Analyzed	Dil Fac
(C25-C36) Surrogate	%Recovery	Qualifier	Limits		99	**	Prepared 05/17/22 12:50	Analyzed	Dil Fac
(C25-C36) Surrogate o-Terphenyl	%Recovery	Qualifier	Limits 50 - 150			**	Prepared 05/17/22 12:50	Analyzed 05/17/22 21:07	Dil Fac

Eurofins Spokane

Page 8 of 20

mg/Kg

12

16

5/18/2022

Client Sample Results

Client: Fulcrum Environmental Job ID: 590-17521-1 Project/Site: 223516.00/Four Star SDG: Four Star

Client Sample ID: FS-051322-05

Date Collected: 05/13/22 16:00

Lab Sample ID: 590-17521-5

Matrix: Solid

ate Received: 05/16/22 14:5	5							Percent Solid	ls: 84.′
Method: 8260D - Volatile Org	•	•							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.036		mg/Kg	₩	05/17/22 11:33	05/17/22 15:51	
Ethylbenzene	0.83		0.18		mg/Kg	₩	05/17/22 11:33	05/17/22 15:51	
m,p-Xylene	3.8		0.72		mg/Kg	₩	05/17/22 11:33	05/17/22 15:51	
o-Xylene	4.6		0.36		mg/Kg	₩	05/17/22 11:33	05/17/22 15:51	
Toluene	0.49		0.18		mg/Kg	☼	05/17/22 11:33	05/17/22 15:51	
Xylenes, Total	8.4		1.1		mg/Kg	₽	05/17/22 11:33	05/17/22 15:51	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	103		75 - 129				05/17/22 11:33	05/17/22 15:51	
4-Bromofluorobenzene (Surr)	165	S1+	76 - 122				05/17/22 11:33	05/17/22 15:51	
Dibromofluoromethane (Surr)	96		80 - 120				05/17/22 11:33	05/17/22 15:51	
Toluene-d8 (Surr)	90		80 - 120				05/17/22 11:33	05/17/22 15:51	
Method: NWTPH-Gx - North	west - Volatile	Petroleu	m Products (GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline	5200		900		mg/Kg	-	05/17/22 11:33	05/17/22 17:18	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	102		41.5 - 162				05/17/22 11:33	05/17/22 17:18	10
Method: NWTPH-Dx - Northy	west - Semi-V	olatile Pe	troleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics (DRO) (C10-C25)	3700		110		mg/Kg	₩	05/17/22 12:50	05/17/22 21:28	1
Residual Range Organics (RRO) (C25-C36)	ND		280		mg/Kg	☼	05/17/22 12:50	05/17/22 21:28	1
Surrogate	%Recovery	•	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	207	S1+	50 - 150				05/17/22 12:50	05/17/22 21:28	1
n-Triacontane-d62	100		50 - 150				05/17/22 12:50	05/17/22 21:28	1
Method: 6010D - Metals (ICP	')								
· · · · · · · · · · · · · · · · · · ·									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Job ID: 590-17521-1 SDG: Four Star

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-36146/1-A

Lab Sample ID: LCS 590-36146/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 36144

Analysis Batch: 36144

Client: Fulcrum Environmental

Project/Site: 223516.00/Four Star

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36146

		IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		05/17/22 11:33	05/17/22 11:50	1
Ethylbenzene	ND		0.10		mg/Kg		05/17/22 11:33	05/17/22 11:50	1
m,p-Xylene	ND		0.40		mg/Kg		05/17/22 11:33	05/17/22 11:50	1
o-Xylene	ND		0.20		mg/Kg		05/17/22 11:33	05/17/22 11:50	1
Toluene	ND		0.10		mg/Kg		05/17/22 11:33	05/17/22 11:50	1
Xylenes, Total	ND		0.60		mg/Kg		05/17/22 11:33	05/17/22 11:50	1

MB MB

MR MR

Surrogate	%Recovery G	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 129	05/17/22 11:33	05/17/22 11:50	1
4-Bromofluorobenzene (Surr)	103		76 - 122	05/17/22 11:33	05/17/22 11:50	1
Dibromofluoromethane (Surr)	91		80 - 120	05/17/22 11:33	05/17/22 11:50	1
Toluene-d8 (Surr)	106		80 - 120	05/17/22 11:33	05/17/22 11:50	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36146

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.500	0.482		mg/Kg		96	76 - 139	
Ethylbenzene	0.500	0.491		mg/Kg		98	77 - 135	
m,p-Xylene	0.500	0.476		mg/Kg		95	78 - 130	
o-Xylene	0.500	0.488		mg/Kg		98	77 - 129	
Toluene	0.500	0.530		mg/Kg		106	77 - 131	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits	
1,2-Dichloroethane-d4 (Surr)	99		75 - 129	
4-Bromofluorobenzene (Surr)	103		76 - 122	
Dibromofluoromethane (Surr)	94		80 - 120	
Toluene-d8 (Surr)	105		80 - 120	

Lab Sample ID: 590-17521-2 MS Client Sample ID: FS-051322-02 **Matrix: Solid**

Analysis Batch: 36144

Prep Type: Total/NA Prep Batch: 36146

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	ND	F1 F2	0.739	0.465	F1	mg/Kg	₩	63	76 - 139
Ethylbenzene	ND	F1 F2	0.739	0.459	F1	mg/Kg	₩	62	77 - 135
m,p-Xylene	ND	F1	0.739	ND	F1	mg/Kg	₩	61	78 - 130
o-Xylene	ND	F1 F2	0.739	0.485	F1	mg/Kg	₩	61	77 - 129
Toluene	ND	F1	0.739	0.552	F1	mg/Kg	☼	69	77 - 131

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 129
4-Bromofluorobenzene (Surr)	108		76 - 122
Dibromofluoromethane (Surr)	91		80 - 120
Toluene-d8 (Surr)	106		80 - 120

Client: Fulcrum Environmental Project/Site: 223516.00/Four Star

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-17521-2 MSD Client Sample ID: FS-051322-02

Matrix: Solid

Analysis Batch: 36144

Prep Type: Total/NA

Prep Batch: 36146

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND	F1 F2	0.739	0.539	F1 F2	mg/Kg	<u></u>	73	76 - 139	15	14
Ethylbenzene	ND	F1 F2	0.739	0.554	F1 F2	mg/Kg	₩	75	77 - 135	19	13
m,p-Xylene	ND	F1	0.739	0.619	F1	mg/Kg	☆	73	78 - 130	14	23
o-Xylene	ND	F1 F2	0.739	0.572	F1 F2	mg/Kg	☆	72	77 - 129	16	15
Toluene	ND	F1	0.739	0.619		mg/Kg	≎	78	77 - 131	11	14

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		75 - 129
4-Bromofluorobenzene (Surr)	99		76 - 122
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: 590-17521-1 DU Client Sample ID: FS-051322-01

Matrix: Solid

Analysis Batch: 36144

Prep Type: Total/NA

Prep Batch: 36146

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Benzene	ND		MD		mg/Kg	<u></u>	NC	25
Ethylbenzene	ND		ND		mg/Kg	☼	NC	25
m,p-Xylene	ND		ND		mg/Kg	☼	NC	23
o-Xylene	ND		ND		mg/Kg	₽	NC	25
Toluene	ND		ND		mg/Kg	☼	NC	25
Xylenes, Total	ND		ND		mg/Kg	☼	NC	25

DU DU

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		75 - 129
4-Bromofluorobenzene (Surr)	105		76 - 122
Dibromofluoromethane (Surr)	90		80 - 120
Toluene-d8 (Surr)	108		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-36146/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 36143

MB MB

Prep Type: Total/NA Prep Batch: 36146

Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 05/17/22 11:33 05/17/22 11:50 Gasoline ND 5.0 mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 41.5 - 162 4-Bromofluorobenzene (Surr) 103 05/17/22 11:33 05/17/22 11:50

LCS LCS

49.3

Result Qualifier

Unit

mg/Kg

Lab Sample ID: LCS 590-36146/3-A

Client Sample ID: Lab Control Sample

D %Rec

98

Matrix: Solid

Analyte

Gasoline

Analysis Batch: 36143

Prep Type: Total/NA Prep Batch: 36146

Limits

74.4 - 124

%Rec

Eurofins Spokane

Spike

Added

50.2

DU DU

ND

Result Qualifier

MDL Unit

mg/Kg

mg/Kg

Unit

mg/Kg

Client: Fulcrum Environmental Project/Site: 223516.00/Four Star Job ID: 590-17521-1

Prep Type: Total/NA Prep Batch: 36146

Prep Type: Total/NA

Prep Batch: 36149

Client Sample ID: FS-051322-01

Client Sample ID: Method Blank

Analyzed

SDG: Four Star

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		41.5 - 162

Lab Sample ID: 590-17521-1 DU

Matrix: Solid

Analysis Batch: 36143

Sample Sample Analyte Result Qualifier

Surrogate 4-Bromofluorobenzene (Surr)

DU DU %Recovery Qualifier 105

ND

Limits 41.5 - 162

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-36149/1-A

Lab Sample ID: LCS 590-36149/2-A

Matrix: Solid

(C10-C25)

Matrix: Solid

Analysis Batch: 36136

Gasoline

Analysis Batch: 36136

MB MB

ND

Result Qualifier

Analyte Diesel Range Organics (DRO)

Residual Range Organics (RRO) ND (C25-C36)

MB MB

Surrogate	%Recovery	Quaimer	Limits
o-Terphenyl	83		50 - 150
n-Triacontane-d62	90		50 - 150

RL

10

25

05/17/22 12:50 05/17/22 19:05

Prepared

Prepared

Client Sample ID: Lab Control Sample Prep Type: Total/NA

05/17/22 12:50 05/17/22 19:05

05/17/22 12:50 05/17/22 19:05

05/17/22 12:50 05/17/22 19:05

Prep Batch: 36149

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Diesel Range Organics (DRO) 66.7 62.6 94 50 - 150 mg/Kg (C10-C25) Residual Range Organics (RRO) 66.7 73.7 mg/Kg 110 50 - 150 (C25-C36)

LCS LCS

Sample Sample

38

ND

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	101		50 - 150
n-Triacontane-d62	101		50 ₋ 150

Lab Sample ID: 590-17521-1 DU

Matrix: Solid

Analysis Batch: 36136

Analyte Diesel Range Organics (DRO)

(C10-C25) Residual Range Organics (RRO) (C25-C36)

Client Sample ID: FS-051322-01

Prep Type: Total/NA Prep Batch: 36149

RPD RPD Limit 40

Eurofins Spokane

DU DU

ND F5

33.7

Result Qualifier

Unit

mg/Kg

mg/Kg

D

₩

RPD

Limit

Dil Fac

Dil Fac

32.3

Analyzed

%Rec

44

Job ID: 590-17521-1

SDG: Four Star

Client: Fulcrum Environmental Project/Site: 223516.00/Four Star

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 590-17521-1 DU

Matrix: Solid

Analysis Batch: 36136

Client Sample ID: FS-051322-01

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 36149

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 36141

Prep Batch: 36141

DU DU

Surrogate %Recovery Qualifier Limits o-Terphenyl 94 50 - 150 n-Triacontane-d62 95 50 - 150

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-36141/2-A

Matrix: Solid

Analyte

Lead

Lead

Analysis Batch: 36151

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac

mg/Kg

Lab Sample ID: LCS 590-36141/1-A

Matrix: Solid

Analysis Batch: 36151

Analyte

Lab Sample ID: 590-17521-1 MS

Matrix: Solid

Analysis Batch: 36151

Analyte Result Qualifier Lead

Lab Sample ID: 590-17521-1 MSD

Matrix: Solid

Matrix: Solid

Lead

Analysis Batch: 36151

Analyte

Lab Sample ID: 590-17521-1 DU

Analysis Batch: 36151

Sample Sample Result Qualifier Analyte Lead 24

ND

Sample Sample

Sample Sample

24

Result Qualifier

24

Spike

Added

50.0

Spike Added

58.6

Spike

Added

60.9

3.0

LCS LCS

MS MS

MSD MSD

DU DU

24.2

Result Qualifier

74.3

Result Qualifier

74.3

Result Qualifier

50.6

Result Qualifier

Unit

mg/Kg

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

D

D

D | %Rec

83

%Rec Limits 101

80 - 120

%Rec

05/17/22 10:24 05/17/22 14:10

Client Sample ID: Lab Control Sample

Client Sample ID: FS-051322-01 **Prep Type: Total/NA**

Prep Batch: 36141

%Rec %Rec Limits 75 - 125

Client Sample ID: FS-051322-01

Prep Type: Total/NA

Prep Batch: 36141

%Rec **RPD** Limits RPD Limit

75 - 125 Client Sample ID: FS-051322-01

> Prep Type: Total/NA Prep Batch: 36141

RPD

RPD Limit 20

Client: Fulcrum Environmental Project/Site: 223516.00/Four Star Job ID: 590-17521-1 SDG: Four Star

Lab Sample ID: 590-17521-2

Lab Sample ID: 590-17521-2

Matrix: Solid

Client Sample ID: FS-051322-01

Lab Sample ID: 590-17521-1 Date Collected: 05/13/22 15:00

Matrix: Solid

Date Received: 05/16/22 14:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36142	05/17/22 10:37	NMI	TAL SPK

Client Sample ID: FS-051322-01

Lab Sample ID: 590-17521-1 Date Collected: 05/13/22 15:00 **Matrix: Solid** Date Received: 05/16/22 14:55 Percent Solids: 80.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.201 g	10 mL	36146	05/17/22 11:33	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	36144	05/17/22 12:56	JSP	TAL SPK
Total/NA	Prep	5035			11.201 g	10 mL	36146	05/17/22 11:33	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	36143	05/17/22 12:56	JSP	TAL SPK
Total/NA	Prep	3550C			15.33 g	5 mL	36149	05/17/22 12:50	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36136	05/17/22 19:45	NMI	TAL SPK
Total/NA	Prep	3050B			1.41 g	50 mL	36141	05/17/22 10:24	AMB	TAL SPK
Total/NA	Analysis	6010D		5	10 mL	10 mL	36151	05/17/22 14:22	AMB	TAL SPK

Client Sample ID: FS-051322-02

Date Collected: 05/13/22 15:15 Date Received: 05/16/22 14:55

Dil Batch Initial Final Batch Prepared Batch **Prep Type** Type Method Run Factor Amount Amount Number or Analyzed Analyst Lab 05/17/22 10:37 NMI Total/NA Analysis Moisture 36142 TAL SPK

Client Sample ID: FS-051322-02

Date Collected: 05/13/22 15:15 Matrix: Solid Date Received: 05/16/22 14:55 Percent Solids: 80.7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.019 g	10 mL	36146	05/17/22 11:33	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	36144	05/17/22 13:40	JSP	TAL SPK
Total/NA	Prep	5035			10.019 g	10 mL	36146	05/17/22 11:33	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	36143	05/17/22 13:40	JSP	TAL SPK
Total/NA	Prep	3550C			15.40 g	5 mL	36149	05/17/22 12:50	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36136	05/17/22 20:26	NMI	TAL SPK
Total/NA	Prep	3050B			1.45 g	50 mL	36141	05/17/22 10:24	AMB	TAL SPK
Total/NA	Analysis	6010D		5			36151	05/17/22 14:41	AMB	TAL SPK

Client Sample ID: FS-051322-03

Lab Sample ID: 590-17521-3

Date Collected: 05/13/22 15:30 **Matrix: Solid** Date Received: 05/16/22 14:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36142	05/17/22 10:37	NMI	TAL SPK

Client: Fulcrum Environmental Project/Site: 223516.00/Four Star

Lab Sample ID: 590-17521-3

Matrix: Solid

Percent Solids: 80.3

Job ID: 590-17521-1

SDG: Four Star

Client Sample ID: FS-051322-03 Date Collected: 05/13/22 15:30 Date Received: 05/16/22 14:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.091 g	10 mL	36146	05/17/22 11:33	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	36144	05/17/22 14:45	JSP	TAL SPK
Total/NA	Prep	5035			10.091 g	10 mL	36146	05/17/22 11:33	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	36143	05/17/22 14:45	JSP	TAL SPK
Total/NA	Prep	3550C			15.59 g	5 mL	36149	05/17/22 12:50	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36136	05/17/22 20:47	NMI	TAL SPK
Total/NA	Prep	3050B			1.37 g	50 mL	36141	05/17/22 10:24	AMB	TAL SPK
Total/NA	Analysis	6010D		5			36151	05/17/22 14:57	AMB	TAL SPK

Client Sample ID: FS-051322-04

Lab Sample ID: 590-17521-4 Date Collected: 05/13/22 15:45 Matrix: Solid

Date Received: 05/16/22 14:55

Batch Dil Initial Batch Batch Final Prepared Method or Analyzed **Prep Type** Type Run **Factor** Amount **Amount** Number Analyst Lab 36142 Total/NA Analysis Moisture 05/17/22 10:37 NMI TAL SPK

Client Sample ID: FS-051322-04 Lab Sample ID: 590-17521-4

Date Collected: 05/13/22 15:45 **Matrix: Solid** Date Received: 05/16/22 14:55 Percent Solids: 82.1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.198 g	10 mL	36146	05/17/22 11:33	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	36144	05/17/22 15:29	JSP	TAL SPK
Total/NA	Prep	5035			8.198 g	10 mL	36146	05/17/22 11:33	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	36143	05/17/22 15:29	JSP	TAL SPK
Total/NA	Prep	3550C			15.36 g	5 mL	36149	05/17/22 12:50	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36136	05/17/22 21:07	NMI	TAL SPK
Total/NA	Prep	3050B			1.58 g	50 mL	36141	05/17/22 10:24	AMB	TAL SPK
Total/NA	Analysis	6010D		5			36151	05/17/22 15:01	AMB	TAL SPK

Client Sample ID: FS-051322-05 Lab Sample ID: 590-17521-5

Date Collected: 05/13/22 16:00 **Matrix: Solid** Date Received: 05/16/22 14:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36142	05/17/22 10:37	NMI	TAL SPK

Client Sample ID: FS-051322-05 Lab Sample ID: 590-17521-5

Date Collected: 05/13/22 16:00 **Matrix: Solid** Percent Solids: 84.1 Date Received: 05/16/22 14:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.358 g	10 mL	36146	05/17/22 11:33	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	36144	05/17/22 15:51	JSP	TAL SPK
Total/NA	Prep	5035			7.358 g	10 mL	36146	05/17/22 11:33	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		100	0.86 mL	43 mL	36143	05/17/22 17:18	JSP	TAL SPK

Lab Chronicle

Client: Fulcrum Environmental Job ID: 590-17521-1 Project/Site: 223516.00/Four Star SDG: Four Star

Client Sample ID: FS-051322-05 Lab Sample ID: 590-17521-5

Date Collected: 05/13/22 16:00 **Matrix: Solid** Date Received: 05/16/22 14:55

Percent Solids: 84.1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.89 g	5 mL	36149	05/17/22 12:50	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		10			36136	05/17/22 21:28	NMI	TAL SPK
Total/NA	Prep	3050B			1.47 g	50 mL	36141	05/17/22 10:24	AMB	TAL SPK
Total/NA	Analysis	6010D		5			36151	05/17/22 15:05	AMB	TAL SPK

Laboratory References:

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Fulcrum Environmental
Project/Site: 223516.00/Four Star

Job ID: 590-17521-1
SDG: Four Star

Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date
Washington	S	State	C569	01-06-23
The following analyte the agency does not do		port, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Moisture	<u> </u>	Solid	Percent Moisture	
Moisture		Solid	Percent Solids	

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Method Summary

Client: Fulcrum Environmental
Project/Site: 223516.00/Four Star

Job ID: 590-17521-1
SDG: Four Star

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK
6010D	Metals (ICP)	SW846	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
3050B	Preparation, Metals	SW846	TAL SPK
3550C	Ultrasonic Extraction	SW846	TAL SPK
5035	Closed System Purge and Trap	SW846	TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

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Chain of Custody Record

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Preservation Used: 1= lce, 2= HCl; 3= H2SO4; 4=HNO3;	5=NaOH; 6= Othe	ir .												
Possible Hazard Identification Are any samples from a tisted EPA Hazardous Waste? Plee the Comments Section if the lab is to dispose of the sample.			or the sampl	e in	Sampi	e Dispos	al (A fe	e may b	e asses:	ed if sar	nples are	e retain	ed longer than 1 month)
Non-Hazard Flammable Skin Irritant	Poison B	Unkn			□R	eturn to Clis	ent		isposal by	Lab	Arc	hive for_	Months	
Special Instructions/QC Requirements & Comments: EMAIL POSULTS O SOLOW	teeful	YUN	100et	' CI	WÔ.	reó	gl	OV.	25	O) (240	110	10Mine	7
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Form No. CA-C-WI-002, Rev 4.35, dated 10/6/2020

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Client: Fulcrum Environmental

Job Number: 590-17521-1 SDG Number: Four Star

List Source: Eurofins Spokane

Login Number: 17521 List Number: 1

Creator: Vaughan Madison 1

Creator: Vaughan, Madison 1		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Spokane 11922 East 1st Ave Spokane, WA 99206 Tel: (509)924-9200

Laboratory Job ID: 590-17564-1

Client Project/Site: Four Star/223516.00

For:

Fulcrum Environmental 207 West Boone Avenue Spokane, Washington 99201

Attn: Scott Groat

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Authorized for release by: 5/23/2022 5:25:09 PM

Randee Arrington, Lab Director (509)924-9200

Randee.Arrington@et.eurofinsus.com

.....LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Client: Fulcrum Environmental Project/Site: Four Star/223516.00 Laboratory Job ID: 590-17564-1

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Case Narrative

Client: Fulcrum Environmental Job ID: 590-17564-1
Project/Site: Four Star/223516.00

Job ID: 590-17564-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 5/19/2022 4:51 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.2° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: FS-051922-01-2.0 (590-17564-1), FS-051922-02-3.0 (590-17564-2), FS-051922-03-2.0 (590-17564-3), FS-051922-04-2.0 (590-17564-4), FS-051922-05-2.0 (590-17564-5), FS-051922-06-2.0 (590-17564-6), FS-051922-07-6.0 (590-17564-7) and FS-051922-08-8.0 (590-17564-8). The samples are considered acceptable since they were collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method NWTPH-Dx: The continuing calibration verification (CCV) associated with batch 590-36206 recovered above the upper control limit for Diesel Range Organics (DRO) (C10-C25). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method NWTPH-Dx: Detected hydrocarbons in the oil range appear to be due to diesel overlap in the following samples: FS-051922-02-3.0 (590-17564-2), FS-051922-03-2.0 (590-17564-3), FS-051922-06-2.0 (590-17564-6) and (590-17564-A-1-C DU).

Method NWTPH-Dx: Surrogate recovery for the following samples were outside control limits: FS-051922-01-2.0 (590-17564-1), FS-051922-04-2.0 (590-17564-4), FS-051922-08-8.0 (590-17564-8) and (590-17564-A-1-C DU). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to heavily weathered diesel and/or a light weight oil in the following sample: FS-051922-05-2.0 (590-17564-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Sample Summary

Client: Fulcrum Environmental Job ID: 590-17564-1 Project/Site: Four Star/223516.00

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-17564-1	FS-051922-01-2.0	Solid	05/19/22 10:00	05/19/22 16:51
590-17564-2	FS-051922-02-3.0	Solid	05/19/22 10:15	05/19/22 16:51
590-17564-3	FS-051922-03-2.0	Solid	05/19/22 10:30	05/19/22 16:51
590-17564-4	FS-051922-04-2.0	Solid	05/19/22 10:45	05/19/22 16:51
590-17564-5	FS-051922-05-2.0	Solid	05/19/22 11:00	05/19/22 16:51
590-17564-6	FS-051922-06-2.0	Solid	05/19/22 11:15	05/19/22 16:51
590-17564-7	FS-051922-07-6.0	Solid	05/19/22 14:00	05/19/22 16:51
590-17564-8	FS-051922-08-8.0	Solid	05/19/22 14:15	05/19/22 16:51

Definitions/Glossary

Client: Fulcrum Environmental Job ID: 590-17564-1

Project/Site: Four Star/223516.00

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Job ID: 590-17564-1

Client: Fulcrum Environmental Project/Site: Four Star/223516.00

Client Sample ID: FS-051922-01-2.0

Date Collected: 05/19/22 10:00

Date Received: 05/19/22 16:51

Lab Sample ID: 590-17564-1

Matrix: Solid

Percent Solids: 76.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.047		mg/Kg	— <u></u>	05/20/22 10:00	05/20/22 12:18	1
Ethylbenzene	ND		0.24		mg/Kg	☆	05/20/22 10:00	05/20/22 12:18	1
m,p-Xylene	ND		0.95		mg/Kg	☆	05/20/22 10:00	05/20/22 12:18	1
o-Xylene	ND		0.47		mg/Kg	☼	05/20/22 10:00	05/20/22 12:18	1
Toluene	ND		0.24		mg/Kg	☼	05/20/22 10:00	05/20/22 12:18	1
Xylenes, Total	ND		1.4		mg/Kg	₩	05/20/22 10:00	05/20/22 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			75 - 129				05/20/22 10:00	05/20/22 12:18	1
4-Bromofluorobenzene (Surr)	97		76 - 122				05/20/22 10:00	05/20/22 12:18	1
Dibromofluoromethane (Surr)	101		80 - 120				05/20/22 10:00	05/20/22 12:18	1
Toluene-d8 (Surr)	102		80 - 120				05/20/22 10:00	05/20/22 12:18	1

Meth	od: NWTPH-Gx - Northy	vest - Volatile	e Petroleu	m Products	(GC/MS)					
Analyt	e	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasol	ine	250		12		mg/Kg	-	05/20/22 10:00	05/20/22 12:18	1
Surro	gate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bron	nofluorobenzene (Surr)	97		41.5 - 162				05/20/22 10:00	05/20/22 12:18	1

Method: NWTPH-Dx - Northw	vest - Semi-V	olatile Pet	roleum Prod	ucts (G	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	9600		130		mg/Kg		05/23/22 10:33	05/23/22 12:34	10
Residual Range Organics (RRO) (C25-C36)	ND		320		mg/Kg	☼	05/23/22 10:33	05/23/22 12:34	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	379	S1+	50 - 150				05/23/22 10:33	05/23/22 12:34	10
n-Triacontane-d62	89		50 - 150				05/23/22 10:33	05/23/22 12:34	10
Method: 6010D - Metals (ICP))								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	170		12		mg/Kg	-	05/20/22 08:05	05/23/22 14:48	5

 Client Sample ID: FS-051922-02-3.0

 Date Collected: 05/19/22 10:15
 Lab Sample ID: 590-17564-2

 Date Received: 05/19/22 16:51
 Matrix: Solid

 Percent Solids: 75.1
 Percent Solids: 75.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	F1	0.57		mg/Kg	<u></u>	05/20/22 10:00	05/20/22 13:01	10
Ethylbenzene	ND	F2 F1	2.8		mg/Kg	☼	05/20/22 10:00	05/20/22 13:01	10
m,p-Xylene	ND	F1	11		mg/Kg	☼	05/20/22 10:00	05/20/22 13:01	10
o-Xylene	ND	F1	5.7		mg/Kg	☼	05/20/22 10:00	05/20/22 13:01	10
Toluene	ND	F2 F1	2.8		mg/Kg	☼	05/20/22 10:00	05/20/22 13:01	10
Xylenes, Total	ND		17		mg/Kg	₩	05/20/22 10:00	05/20/22 13:01	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 129				05/20/22 10:00	05/20/22 13:01	10
4-Bromofluorobenzene (Surr)	117		76 - 122				05/20/22 10:00	05/20/22 13:01	10
Dibromofluoromethane (Surr)	106		80 - 120				05/20/22 10:00	05/20/22 13:01	10

Eurofins Spokane

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Client Sample Results

Client: Fulcrum Environmental Job ID: 590-17564-1

Project/Site: Four Star/223516.00

Client Sample ID: FS-051922-02-3.0

Date Collected: 05/19/22 10:15 Date Received: 05/19/22 16:51 Lab Sample ID: 590-17564-2

Matrix: Solid

Percent Solids: 75.1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98	80 - 120	05/20/22 10:00	05/20/22 13:01	10

Method: NWTPH-Gx - Northwest -	Volatile Petroleum	Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Gasoline	6600		140		mg/Kg		E	05/20/22 10:00	05/20/22 13:01	10

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117	41.5 - 162	05/20/22 10:00	05/20/22 13:01	10

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	28000		130		mg/Kg	*	05/23/22 10:33	05/23/22 13:15	10
Residual Range Organics (RRO) (C25-C36)	770		330		mg/Kg	₩	05/23/22 10:33	05/23/22 13:15	10
							_		

ı	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	o-Terphenyl	63		50 - 150	05/23/22 10:33	05/23/22 13:15	10
	n-Triacontane-d62	107		50 - 150	05/23/22 10:33	05/23/22 13:15	10

Method:	6010D	- Metals	(ICP)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	79		13		mg/Kg		05/20/22 08:05	05/23/22 14:52	5

Client Sample ID: FS-051922-03-2.0 Lab Sample ID: 590-17564-3

Date Collected: 05/19/22 10:30

Date Received: 05/19/22 16:51

Matrix: Solid
Percent Solids: 82.9

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.040		mg/Kg	-	05/20/22 10:00	05/20/22 14:06	1
Ethylbenzene	ND		0.20		mg/Kg	₩	05/20/22 10:00	05/20/22 14:06	1
m,p-Xylene	ND		0.80		mg/Kg	₩	05/20/22 10:00	05/20/22 14:06	1
o-Xylene	0.59		0.40		mg/Kg	⊅	05/20/22 10:00	05/20/22 14:06	1
Toluene	ND		0.20		mg/Kg	₩	05/20/22 10:00	05/20/22 14:06	1
Xylenes, Total	ND		1.2		mg/Kg	₩	05/20/22 10:00	05/20/22 14:06	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105	75 - 129	05/20/22 10:00	05/20/22 14:06	1
4-Bromofluorobenzene (Surr)	121	76 - 122	05/20/22 10:00	05/20/22 14:06	1
Dibromofluoromethane (Surr)	100	80 - 120	05/20/22 10:00	05/20/22 14:06	1
Toluene-d8 (Surr)	100	80 - 120	05/20/22 10:00	05/20/22 14:06	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result Qual	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	800	10		mg/Kg	-	05/20/22 10:00	05/20/22 14:06	1
Surrogate	%Recovery Qual	lifier Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorohenzene (Surr)	121	41 5 162				05/20/22 10:00	05/20/22 14:06	

Client: Fulcrum Environmental Job ID: 590-17564-1

Project/Site: Four Star/223516.00

Client Sample ID: FS-051922-03-2.0

Lab Sample ID: 590-17564-3 Date Collected: 05/19/22 10:30 **Matrix: Solid** Date Received: 05/19/22 16:51 Percent Solids: 82.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	2900		57		mg/Kg	<u></u>	05/23/22 10:33	05/23/22 13:34	5
Residual Range Organics (RRO) (C25-C36)	ND		140		mg/Kg	₽	05/23/22 10:33	05/23/22 13:34	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	119		50 - 150				05/23/22 10:33	05/23/22 13:34	5
n-Triacontane-d62	91		50 - 150				05/23/22 10:33	05/23/22 13:34	5
Method: 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS-051922-04-2.0 Lab Sample ID: 590-17564-4

Date Collected: 05/19/22 10:45 **Matrix: Solid** Date Received: 05/19/22 16:51 Percent Solids: 82.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.44		mg/Kg	<u></u>	05/20/22 10:00	05/20/22 14:49	10
Ethylbenzene	ND		2.2		mg/Kg	₩	05/20/22 10:00	05/20/22 14:49	10
m,p-Xylene	ND		8.8		mg/Kg	₩	05/20/22 10:00	05/20/22 14:49	10
o-Xylene	ND		4.4		mg/Kg	₩	05/20/22 10:00	05/20/22 14:49	10
Toluene	ND		2.2		mg/Kg	₩	05/20/22 10:00	05/20/22 14:49	10
Xylenes, Total	ND		13		mg/Kg	☼	05/20/22 10:00	05/20/22 14:49	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 129				05/20/22 10:00	05/20/22 14:49	10
4-Bromofluorobenzene (Surr)	99		76 - 122				05/20/22 10:00	05/20/22 14:49	10
Dibromofluoromethane (Surr)	96		80 - 120				05/20/22 10:00	05/20/22 14:49	10
Toluene-d8 (Surr)	104		80 - 120				05/20/22 10:00	05/20/22 14:49	10
Analyte Gasoline	2000	Qualifier	110 RL	MDL	mg/Kg	— D	Prepared 05/20/22 10:00	Analyzed 05/20/22 14:49	
		<u> </u>				_			Dil Ess
		Qualitier		MDL				•	
				MDL				•	10
Gasoline	2000		110	MDL			05/20/22 10:00	05/20/22 14:49	10 Dil Fac
Gasoline Surrogate 4-Bromofluorobenzene (Surr)	2000 %Recovery	Qualifier	110 Limits 41.5 - 162		mg/Kg		05/20/22 10:00 Prepared	05/20/22 14:49 <i>Analyzed</i>	10 Dil Fac
Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: NWTPH-Dx - Northwee	2000 %Recovery 99 est - Semi-V	Qualifier	110 Limits 41.5 - 162		mg/Kg		05/20/22 10:00 Prepared 05/20/22 10:00	05/20/22 14:49 Analyzed 05/20/22 14:49	10 Dil Fac
Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: NWTPH-Dx - Northwee Analyte Diesel Range Organics (DRO)	2000 %Recovery 99 est - Semi-V	Qualifier	110 Limits 41.5 - 162 roleum Produ	ucts (G0	mg/Kg	— -	05/20/22 10:00 Prepared	05/20/22 14:49 <i>Analyzed</i>	Dil Fac
Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: NWTPH-Dx - Northwee Analyte	2000 %Recovery 99 est - Semi-V Result	Qualifier Olatile Pet	Limits 41.5 - 162 Troleum Produ	ucts (G0	mg/Kg) Unit		05/20/22 10:00 Prepared 05/20/22 10:00 Prepared	05/20/22 14:49 Analyzed 05/20/22 14:49 Analyzed 05/23/22 13:54	Dil Fac
Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: NWTPH-Dx - Northwee Analyte Diesel Range Organics (DRO) (C10-C25) Residual Range Organics (RRO)	2000 %Recovery 99 est - Semi-V Result 3600	Qualifier Colatile Pet Qualifier	110 Limits 41.5 - 162 Troleum Produ RL 59	ucts (G0	mg/Kg Unit mg/Kg		05/20/22 10:00 Prepared 05/20/22 10:00 Prepared 05/23/22 10:33	05/20/22 14:49 Analyzed 05/20/22 14:49 Analyzed 05/23/22 13:54	10 Dil Fac 10 Dil Fac 5
Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: NWTPH-Dx - Northwee Analyte Diesel Range Organics (DRO) (C10-C25) Residual Range Organics (RRO) (C25-C36)	2000 %Recovery 99 est - Semi-V Result 3600 ND %Recovery	Qualifier Colatile Pet Qualifier	110 Limits 41.5 - 162 Troleum Produ RL 59	ucts (G0	mg/Kg Unit mg/Kg		05/20/22 10:00 Prepared 05/20/22 10:00 Prepared 05/23/22 10:33 05/23/22 10:33	05/20/22 14:49 Analyzed 05/20/22 14:49 Analyzed 05/23/22 13:54 05/23/22 13:54	Dil Fac
Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: NWTPH-Dx - Northwee Analyte Diesel Range Organics (DRO) (C10-C25) Residual Range Organics (RRO) (C25-C36) Surrogate	2000 %Recovery 99 est - Semi-V Result 3600 ND %Recovery	Qualifier Colatile Pet Qualifier Qualifier	110 Limits 41.5 - 162 Troleum Production RL 59 150 Limits	ucts (G0	mg/Kg Unit mg/Kg		Prepared 05/23/22 10:00 Prepared 05/20/22 10:00 Prepared 05/23/22 10:33 Prepared 05/23/22 10:33	05/20/22 14:49 Analyzed 05/20/22 14:49 Analyzed 05/23/22 13:54 05/23/22 13:54 Analyzed	Dil Fac
Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: NWTPH-Dx - Northwee Analyte Diesel Range Organics (DRO) (C10-C25) Residual Range Organics (RRO) (C25-C36) Surrogate o-Terphenyl	2000 %Recovery 99 est - Semi-V Result 3600 ND %Recovery 274	Qualifier Colatile Pet Qualifier Qualifier	110 Limits 41.5 - 162 Troleum Produ RL 59 150 Limits 50 - 150	ucts (G0	mg/Kg Unit mg/Kg		Prepared 05/23/22 10:00 Prepared 05/20/22 10:00 Prepared 05/23/22 10:33 Prepared 05/23/22 10:33	05/20/22 14:49 Analyzed 05/20/22 14:49 Analyzed 05/23/22 13:54 05/23/22 13:54 Analyzed 05/23/22 13:54	Dil Fac Dil Fac 5 Dil Fac 5
Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: NWTPH-Dx - Northwee Analyte Diesel Range Organics (DRO) (C10-C25) Residual Range Organics (RRO) (C25-C36) Surrogate o-Terphenyl n-Triacontane-d62	2000 **Recovery 99 est - Semi-V Result 3600 ND **Recovery 274 93	Qualifier Colatile Pet Qualifier Qualifier	110 Limits 41.5 - 162 Troleum Produ RL 59 150 Limits 50 - 150	ucts (G0	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/23/22 10:00 Prepared 05/20/22 10:00 Prepared 05/23/22 10:33 Prepared 05/23/22 10:33	05/20/22 14:49 Analyzed 05/20/22 14:49 Analyzed 05/23/22 13:54 05/23/22 13:54 Analyzed 05/23/22 13:54	Dil Fac Dil Fac 5 Dil Fac 5 Dil Fac 5 Dil Fac

Eurofins Spokane

Page 8 of 23 5/23/2022 Client: Fulcrum Environmental Job ID: 590-17564-1

Project/Site: Four Star/223516.00

Client Sample ID: FS-051922-05-2.0

Date Collected: 05/19/22 11:00 Date Received: 05/19/22 16:51 Lab Sample ID: 590-17564-5

Matrix: Solid

watrix: Solid
Percent Solids: 87.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.046		mg/Kg	<u></u>	05/20/22 10:00	05/20/22 15:11	1
Ethylbenzene	ND		0.23		mg/Kg	₩	05/20/22 10:00	05/20/22 15:11	1
m,p-Xylene	ND		0.93		mg/Kg	₩	05/20/22 10:00	05/20/22 15:11	1
o-Xylene	ND		0.46		mg/Kg	₩	05/20/22 10:00	05/20/22 15:11	1
Toluene	ND		0.23		mg/Kg	₽	05/20/22 10:00	05/20/22 15:11	1
Xylenes, Total	ND		1.4		mg/Kg	₽	05/20/22 10:00	05/20/22 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 129				05/20/22 10:00	05/20/22 15:11	1
4-Bromofluorobenzene (Surr)	101		76 - 122				05/20/22 10:00	05/20/22 15:11	1
Dibromofluoromethane (Surr)	90		80 - 120				05/20/22 10:00	05/20/22 15:11	1
Toluene-d8 (Surr)	111		80 - 120				05/20/22 10:00	05/20/22 15:11	1

Method: NWTPH-Gx - North	าwest - Volatile	e Petroleu	m Products (GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		12		mg/Kg		05/20/22 10:00	05/20/22 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			41.5 - 162				05/20/22 10:00	05/20/22 15:11	

Method: NWTPH-Dx - Northwe	est - Semi-V	olatile Pet	roleum Prodi	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	260		54		mg/Kg		05/23/22 10:33	05/23/22 14:12	5
Residual Range Organics (RRO) (C25-C36)	ND		140		mg/Kg	₩	05/23/22 10:33	05/23/22 14:12	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	97		50 - 150				05/23/22 10:33	05/23/22 14:12	5
n-Triacontane-d62	93		50 - 150				05/23/22 10:33	05/23/22 14:12	5
Method: 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lead	170	11	mg/Kg	\$\phi\$ 05/20/22 08:05 05/23/22 15:16	5
Client Sample ID: FS-0519	22-06-2.0			Lab Sample ID: 590-17564	1-6
Date Collected: 05/19/22 11:15				Matrix: Sc	did

Date Received: 05/19/22 16:51 Percent Solids: 78.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	MD		0.046		mg/Kg	<u></u>	05/20/22 10:00	05/20/22 15:33	1
Ethylbenzene	ND		0.23		mg/Kg	☼	05/20/22 10:00	05/20/22 15:33	1
m,p-Xylene	ND		0.91		mg/Kg	₩	05/20/22 10:00	05/20/22 15:33	1
o-Xylene	ND		0.46		mg/Kg	₩	05/20/22 10:00	05/20/22 15:33	1
Toluene	ND		0.23		mg/Kg	☼	05/20/22 10:00	05/20/22 15:33	1
Xylenes, Total	ND		1.4		mg/Kg	☼	05/20/22 10:00	05/20/22 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 129				05/20/22 10:00	05/20/22 15:33	1
4-Bromofluorobenzene (Surr)	102		76 - 122				05/20/22 10:00	05/20/22 15:33	1
Dibromofluoromethane (Surr)	92		80 - 120				05/20/22 10:00	05/20/22 15:33	1

Eurofins Spokane

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Client: Fulcrum Environmental Job ID: 590-17564-1

Project/Site: Four Star/223516.00

Client Sample ID: FS-051922-06-2.0

Date Collected: 05/19/22 11:15 Date Received: 05/19/22 16:51 Lab Sample ID: 590-17564-6

Matrix: Solid

Percent Solids: 78.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	111		80 - 120	05/20/22 10:00	05/20/22 15:33	1

Method: NWTPH-Gx - Northwest	Volatile Petroleum	Products (GC/MS)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	73	11	mg/Kg	₽	05/20/22 10:00	05/20/22 15:33	1

Surrogate	%Recovery G	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	_	41.5 - 162	05/20/22 10:00 05/20/22 15:33	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	2400	61	mg/Kg	*	05/23/22 10:33	05/23/22 14:32	5
Residual Range Organics (RRO) (C25-C36)	180	150	mg/Kg	₽	05/23/22 10:33	05/23/22 14:32	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	107		50 - 150	05/23/22 10:33	05/23/22 14:32	5
n-Triacontane-d62	93		50 - 150	05/23/22 10:33	05/23/22 14:32	5

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	0	Prepared	Analyzed	Dil Fac
Lead	46		11		mg/Kg	¢	05/20/22 08:05	05/23/22 15:20	5

Client Sample ID: FS-051922-07-6.0 Lab Sample ID: 590-17564-7

Date Collected: 05/19/22 14:00

Date Received: 05/19/22 16:51

Matrix: Solid
Percent Solids: 78.8

Method: 8260D - Volatile O	ganic Compounds by	GC/MS
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.049	mg/K	g ÷	05/20/22 10:00	05/20/22 15:54	1
Ethylbenzene	ND	0.25	mg/K	g ∷	05/20/22 10:00	05/20/22 15:54	1
m,p-Xylene	ND	0.98	mg/K	g ∷	05/20/22 10:00	05/20/22 15:54	1
o-Xylene	0.65	0.49	mg/K	g ∵	05/20/22 10:00	05/20/22 15:54	1
Toluene	ND	0.25	mg/K	g ∷	05/20/22 10:00	05/20/22 15:54	1
Xylenes, Total	1.5	1.5	mg/K	g 🌣	05/20/22 10:00	05/20/22 15:54	1

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103	75 - 129	05/20/22 10:00 05/20/22 15:54	1
4-Bromofluorobenzene (Surr)	119	76 - 122	05/20/22 10:00 05/20/22 15:54	1
Dibromofluoromethane (Surr)	104	80 - 120	05/20/22 10:00 05/20/22 15:54	1
Toluene-d8 (Surr)	93	80 - 120	05/20/22 10:00 05/20/22 15:54	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Allalyte	Result	Qualifier	IXL	MIDE	Oilit		Fiepaieu	Allalyzeu	Diriac	
Gasoline	710		12		mg/Kg	<u></u>	05/20/22 10:00	05/20/22 15:54	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	119		41.5 - 162				05/20/22 10:00	05/20/22 15:54	1	

Client: Fulcrum Environmental Project/Site: Four Star/223516.00

Lab Sample ID: 590-17564-7

Client Sample ID: FS-051922-07-6.0 Date Collected: 05/19/22 14:00

Matrix: Solid Percent Solids: 78.8

Job ID: 590-17564-1

Date Received: 05/19/22 16:51 Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result Qualifie		MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	93	12	mg/k	√ g	05/23/22 10:33	05/23/22 14:50	1
Residual Range Organics (RRO) (C25-C36)	ND	30	mg/k	(g ⇔	05/23/22 10:33	05/23/22 14:50	1
Surrogate	%Recovery Qualifie	er Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	104	50 - 150			05/23/22 10:33	05/23/22 14:50	1

n-Triacontane-d62 104 50 - 150 05/23/22 10:33 05/23/22 14:50

Method: 6010D - Metals (ICP)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Lead ND 10 mg/Kg

Client Sample ID: FS-051922-08-8.0 Lab Sample ID: 590-17564-8

Date Collected: 05/19/22 14:15 Matrix: Solid Date Received: 05/19/22 16:51 Percent Solids: 70.8

Method: 8260D - Volatile Organic Compounds by GC/MS

Mictilioa. Ozoob - Volutili	c organic compounds by or						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND	0.061	mg/Kg	<u></u>	05/20/22 10:00	05/20/22 16:15	1
Ethylbenzene	0.50	0.30	mg/Kg	☼	05/20/22 10:00	05/20/22 16:15	1
m,p-Xylene	2.3	1.2	mg/Kg	☼	05/20/22 10:00	05/20/22 16:15	1
o-Xylene	2.3	0.61	mg/Kg	₩	05/20/22 10:00	05/20/22 16:15	1
Toluene	ND	0.30	mg/Kg	☼	05/20/22 10:00	05/20/22 16:15	1
Xylenes, Total	4.6	1.8	mg/Kg	₩	05/20/22 10:00	05/20/22 16:15	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	101		75 - 129	05/20/22 10:00	05/20/22 16:15	1
	4-Bromofluorobenzene (Surr)	123	S1+	76 - 122	05/20/22 10:00	05/20/22 16:15	1
	Dibromofluoromethane (Surr)	110		80 - 120	05/20/22 10:00	05/20/22 16:15	1
١	Toluene-d8 (Surr)	95		80 - 120	05/20/22 10:00	05/20/22 16:15	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	3900		150		mg/Kg	<u></u>	05/20/22 10:00	05/20/22 19:05	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		41.5 - 162				05/20/22 10:00	05/20/22 19:05	10

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	4900	140	mg/K	g 🌣	05/23/22 10:33	05/23/22 15:11	10
Residual Range Organics (RRO) (C25-C36)	ND	340	mg/K	g 🌣	05/23/22 10:33	05/23/22 15:11	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	180	S1+	50 - 150	05/23/22 10:33	05/23/22 15:11	10
n-Triacontane-d62	86		50 - 150	05/23/22 10:33	05/23/22 15:11	10

Method:	6010D	- Metals	(ICP)
			•

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	14	10	mg/Kg	— <u>—</u>	05/20/22 08:05	05/23/22 15:28	5

Client: Fulcrum Environmental Job ID: 590-17564-1

Project/Site: Four Star/223516.00

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-36200/1-A

Lab Sample ID: LCS 590-36200/2-A

Lab Sample ID: 590-17564-2 MS

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analysis Batch: 36199

Analysis Batch: 36199

Analysis Batch: 36199

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 36200

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		05/20/22 10:00	05/20/22 11:13	1
Ethylbenzene	ND		0.10		mg/Kg		05/20/22 10:00	05/20/22 11:13	1
m,p-Xylene	ND		0.40		mg/Kg		05/20/22 10:00	05/20/22 11:13	1
o-Xylene	ND		0.20		mg/Kg		05/20/22 10:00	05/20/22 11:13	1
Toluene	ND		0.10		mg/Kg		05/20/22 10:00	05/20/22 11:13	1
Xylenes, Total	ND		0.60		mg/Kg		05/20/22 10:00	05/20/22 11:13	1

MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d-	4 (Surr) 107	75 - 129	05/20/22 10:00	05/20/22 11:13	1
4-Bromofluorobenzen	ne (Surr) 88	76 - 122	05/20/22 10:00	05/20/22 11:13	1
Dibromofluoromethan	ne (Surr) 107	80 - 120	05/20/22 10:00	05/20/22 11:13	1
Toluene-d8 (Surr)	104	80 - 120	05/20/22 10:00	05/20/22 11:13	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36200

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.500	0.512		mg/Kg		102	76 - 139	
Ethylbenzene	0.500	0.491		mg/Kg		98	77 - 135	
m,p-Xylene	0.500	0.493		mg/Kg		99	78 - 130	
o-Xylene	0.500	0.491		mg/Kg		98	77 - 129	
Toluene	0.500	0.525		ma/Ka		105	77 131	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits	
1,2-Dichloroethane-d4 (Surr)	101		75 - 129	
4-Bromofluorobenzene (Surr)	91		76 - 122	
Dibromofluoromethane (Surr)	105		80 - 120	
Toluene-d8 (Surr)	102		80 - 120	

Client Sample ID: FS-051922-02-3.0

Prep Type: Total/NA

Prep Batch: 36200

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Benzene ND F1 14.2 9.86 F1 69 76 - 139 mg/Kg Ethylbenzene 14.2 77 - 135 ND F2 F1 9.46 F1 mg/Kg 67 ₩ m,p-Xylene ND F1 14.2 ND F1 mg/Kg ₩ 65 78 - 130 o-Xylene ND F1 14.2 10.1 F1 mg/Kg ₩ 71 77 - 129 Toluene ND F2F1 14.2 9.21 F1 mg/Kg 77 - 131

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		75 - 129
4-Bromofluorobenzene (Surr)	112		76 - 122
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Job ID: 590-17564-1

Project/Site: Four Star/223516.00

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-17564-2 MSD

Lab Sample ID: 590-17564-1 DU

Matrix: Solid

Matrix: Solid

Toluene

Xylenes, Total

Analysis Batch: 36199

Client Sample ID: FS-051922-02-3.0

Prep Type: Total/NA

Prep Batch: 36200

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND	F1	14.2	11.2		mg/Kg	<u></u>	79	76 - 139	13	14
Ethylbenzene	ND	F2 F1	14.2	11.2	F2	mg/Kg	☼	79	77 - 135	17	13
m,p-Xylene	ND	F1	14.2	ND	F1	mg/Kg	☼	77	78 - 130	16	23
o-Xylene	ND	F1	14.2	11.7		mg/Kg	☼	83	77 - 129	15	15
Toluene	ND	F2 F1	14.2	11.0	F2	mg/Kg	☼	77	77 - 131	17	14

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		75 - 129
4-Bromofluorobenzene (Surr)	108		76 - 122
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Client Sample ID: FS-051922-01-2.0

Prep Type: Total/NA Prep Batch: 36200

NC

NC

RPD

Limit

25

25

23

25

25

25

Analysis Batch: 36199 Sample Sample DU DU Analyte Result Qualifier Result Qualifier Unit D RPD ND ND NC Benzene mg/Kg ₩ Ethylbenzene ND ND NC mg/Kg ☼ ND ND m,p-Xylene mg/Kg NC ₩ o-Xylene ND ND NC mg/Kg

ND

ND

mg/Kg

mg/Kg

Ö

DU DU

ND

ND

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		75 - 129
4-Bromofluorobenzene (Surr)	99		76 - 122
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	102		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-36200/1-A

Matrix: Solid

Analysis Batch: 36198

Client Sample ID: Method Blank
Prep Type: Total/NA
Drop Potoby 26200

Prep Batch: 36200

Analyzed Dil Fac

Result Qualifier RL **MDL** Unit Analyte **Prepared** 05/20/22 10:00 05/20/22 11:13 Gasoline ND 5.0 mg/Kg

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 88 41.5 - 162 05/20/22 10:00 05/20/22 11:13

Lab Sample ID: LCS 590-36200/3-A

Matrix: Solid

Analysis Batch: 36198

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 36200

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit Limits %Rec Gasoline 50.2 48.6 mg/Kg 97 74.4 - 124

Client: Fulcrum Environmental

Job ID: 590-17564-1

Project/Site: Four Star/223516.00

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		41.5 - 162

Lab Sample ID: 590-17564-1 DU **Matrix: Solid**

Analysis Batch: 36198

Client Sample ID: FS-051922-01-2.0

Prep Type: Total/NA

Prep Batch: 36200 **RPD**

DU DU Sample Sample Analyte Result Qualifier Result Qualifier Limit Unit Gasoline 250 276 32.3 mg/Kg

DU DU

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 41.5 - 162 99

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-36205/1-A

Matrix: Solid

Analysis Batch: 36206

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 36205

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Diesel Range Organics (DRO) 10 05/23/22 10:33 05/23/22 11:35 ND mg/Kg (C10-C25) 05/23/22 10:33 05/23/22 11:35 Residual Range Organics (RRO) ND 25 mg/Kg (C25-C36)

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	92		50 - 150	05/23/22 10:33	05/23/22 11:35	1
n-Triacontane-d62	96		50 ₋ 150	05/23/22 10:33	05/23/22 11:35	1

Lab Sample ID: LCS 590-36205/2-A

Matrix: Solid

Analysis Batch: 36206

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 36205

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Diesel Range Organics (DRO) 66.7 63.8 96 50 - 150 mg/Kg (C10-C25) Residual Range Organics (RRO) 66.7 77.1 mg/Kg 116 50 - 150 (C25-C36)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
o-Terphenyl	95	50 - 150
n-Triacontane-d62	89	50 - 150

Lab Sample ID: 590-17564-1 DU

Client Sample ID: FS-051922-01-2.0

Matrix: Solid

Prep Type: Total/NA

ı	Analysis Batch: 36206							Prep B	atcn: .	36205
		Sample	Sample	DU	DU					RPD
	Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
	Diesel Range Organics (DRO) (C10-C25)	9600		9420		mg/Kg	₩		2	40
	Residual Range Organics (RRO) (C25-C36)	ND		329		mg/Kg	₩		5	40

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QC Sample Results

Client: Fulcrum Environmental Job ID: 590-17564-1

Project/Site: Four Star/223516.00

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 590-17564-1 DU **Matrix: Solid**

Analysis Batch: 36206

Client Sample ID: FS-051922-01-2.0

Prep Type: Total/NA

Prep Batch: 36205

DU DU

%Recovery Qualifier Surrogate Limits o-Terphenyl 288 S1+ 50 - 150 n-Triacontane-d62 90 50 - 150

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-36193/2-A

Matrix: Solid

Analysis Batch: 36214

мв мв

Analyte Lead

Lab Sample ID: LCS 590-36193/1-A

ND

Result Qualifier

RL 3.0 MDL Unit mg/Kg

Prepared 05/20/22 08:05 05/23/22 14:20

103

Client Sample ID: Lab Control Sample

Analyzed

Prep Type: Total/NA Prep Batch: 36193

Prep Type: Total/NA

Prep Batch: 36193

%Rec Limits

Client Sample ID: Method Blank

Dil Fac

Analyte

Analysis Batch: 36214

Matrix: Solid

Lead

Spike Added 50.0

LCS LCS Result Qualifier

51.4

Unit mg/Kg D %Rec

80 - 120

Client: Fulcrum Environmental Project/Site: Four Star/223516.00

Client Sample ID: FS-051922-01-2.0

Date Collected: 05/19/22 10:00 Date Received: 05/19/22 16:51 Lab Sample ID: 590-17564-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36197	05/20/22 09:22	M1V	TAL SPK

Client Sample ID: FS-051922-01-2.0

Date Collected: 05/19/22 10:00 Date Received: 05/19/22 16:51 Lab Sample ID: 590-17564-1 Matrix: Solid

Percent Solids: 76.2

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.403 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	36199	05/20/22 12:18	JSP	TAL SPK
Total/NA	Prep	5035			6.403 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	36198	05/20/22 12:18	JSP	TAL SPK
Total/NA	Prep	3550C			15.36 g	5 mL	36205	05/23/22 10:33	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		10			36206	05/23/22 12:34	NMI	TAL SPK
Total/NA	Prep	3050B			1.66 g	50 mL	36193	05/20/22 08:05	JSP	TAL SPK
Total/NA	Analysis	6010D		5			36214	05/23/22 14:48	JSP	TAL SPK

Client Sample ID: FS-051922-02-3.0

Date Collected: 05/19/22 10:15

Date Received: 05/19/22 16:51

Lab Sample ID: 590-17564-2

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36197	05/20/22 09:22	M1V	TAL SPK

Client Sample ID: FS-051922-02-3.0

Date Collected: 05/19/22 10:15

Date Received: 05/19/22 16:51

Lab Sample ID: 590-17564-2

Matrix: Solid

Lab Sample ID: 590-17564-3

Percent Solids: 75.1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.318 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	8260D		10	0.86 mL	43 mL	36199	05/20/22 13:01	JSP	TAL SPK
Total/NA	Prep	5035			5.318 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		10	0.86 mL	43 mL	36198	05/20/22 13:01	JSP	TAL SPK
Total/NA	Prep	3550C			15.04 g	5 mL	36205	05/23/22 10:33	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		10			36206	05/23/22 13:15	NMI	TAL SPK
Total/NA	Prep	3050B			1.50 g	50 mL	36193	05/20/22 08:05	JSP	TAL SPK
Total/NA	Analysis	6010D		5			36214	05/23/22 14:52	JSP	TAL SPK

Client Sample ID: FS-051922-03-2.0

Date Collected: 05/19/22 10:30

Date Received: 05/19/22 16:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36197	05/20/22 09:22	M1V	TAL SPK

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Matrix: Solid

2

Job ID: 590-17564-1

Client: Fulcrum Environmental Project/Site: Four Star/223516.00

Client Sample ID: FS-051922-03-2.0

Date Collected: 05/19/22 10:30 Date Received: 05/19/22 16:51 Lab Sample ID: 590-17564-3

Matrix: Solid

Percent Solids: 82.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.742 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	36199	05/20/22 14:06	JSP	TAL SPK
Total/NA	Prep	5035			6.742 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	36198	05/20/22 14:06	JSP	TAL SPK
Total/NA	Prep	3550C			15.86 g	5 mL	36205	05/23/22 10:33	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		5			36206	05/23/22 13:34	NMI	TAL SPK
Total/NA	Prep	3050B			1.47 g	50 mL	36193	05/20/22 08:05	JSP	TAL SPK
Total/NA	Analysis	6010D		5			36214	05/23/22 15:08	JSP	TAL SPK

Client Sample ID: FS-051922-04-2.0 Lab Sample ID: 590-17564-4

Date Collected: 05/19/22 10:45 Date Received: 05/19/22 16:51 Matrix: Solid

Batch Dil Initial Batch Batch Final Prepared Method or Analyzed Analyst **Prep Type** Type Run **Factor** Amount **Amount** Number Lab Total/NA Analysis Moisture 36197 05/20/22 09:22 M1V TAL SPK

Client Sample ID: FS-051922-04-2.0 Lab Sample ID: 590-17564-4

 Date Collected: 05/19/22 10:45
 Matrix: Solid

 Date Received: 05/19/22 16:51
 Percent Solids: 82.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.124 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	8260D		10	0.86 mL	43 mL	36199	05/20/22 14:49	JSP	TAL SPK
Total/NA	Prep	5035			6.124 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		10	0.86 mL	43 mL	36198	05/20/22 14:49	JSP	TAL SPK
Total/NA	Prep	3550C			15.54 g	5 mL	36205	05/23/22 10:33	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		5			36206	05/23/22 13:54	NMI	TAL SPK
Total/NA	Prep	3050B			1.54 g	50 mL	36193	05/20/22 08:05	JSP	TAL SPK
Total/NA	Analysis	6010D		5			36214	05/23/22 15:12	JSP	TAL SPK

Client Sample ID: FS-051922-05-2.0 Lab Sample ID: 590-17564-5

Date Collected: 05/19/22 11:00 Date Received: 05/19/22 16:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	Moisture					36197	05/20/22 09:22	M1V	TAL SPK	

Client Sample ID: FS-051922-05-2.0 Lab Sample ID: 590-17564-5

Date Collected: 05/19/22 11:00 Matrix: Solid
Date Received: 05/19/22 16:51 Percent Solids: 87.3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.253 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	36199	05/20/22 15:11	JSP	TAL SPK
Total/NA	Prep	5035			5.253 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	36198	05/20/22 15:11	JSP	TAL SPK

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Matrix: Solid

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Job ID: 590-17564-1

Client: Fulcrum Environmental Project/Site: Four Star/223516.00

Client Sample ID: FS-051922-05-2.0 Lab Sample ID: 590-17564-5 Date Collected: 05/19/22 11:00

Matrix: Solid

Date Received: 05/19/22 16:51 Percent Solids: 87.3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.86 g	5 mL	36205	05/23/22 10:33	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		5			36206	05/23/22 14:12	NMI	TAL SPK
Total/NA	Prep	3050B			1.54 g	50 mL	36193	05/20/22 08:05	JSP	TAL SPK
Total/NA	Analysis	6010D		5			36214	05/23/22 15:16	JSP	TAL SPK

Client Sample ID: FS-051922-06-2.0 Lab Sample ID: 590-17564-6 Matrix: Solid Date Collected: 05/19/22 11:15

Date Received: 05/19/22 16:51

Batch Batch Dil Initial Batch Final Prepared Method or Analyzed **Prep Type** Type Run **Factor Amount** Amount Number Analyst Lab 36197 05/20/22 09:22 M1V Total/NA Analysis Moisture TAL SPK

Client Sample ID: FS-051922-06-2.0

Lab Sample ID: 590-17564-6 Date Collected: 05/19/22 11:15 **Matrix: Solid** Date Received: 05/19/22 16:51 Percent Solids: 78.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.354 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	36199	05/20/22 15:33	JSP	TAL SPK
Total/NA	Prep	5035			6.354 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	36198	05/20/22 15:33	JSP	TAL SPK
Total/NA	Prep	3550C			15.66 g	5 mL	36205	05/23/22 10:33	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		5			36206	05/23/22 14:32	NMI	TAL SPK
Total/NA	Prep	3050B			1.75 g	50 mL	36193	05/20/22 08:05	JSP	TAL SPK
Total/NA	Analysis	6010D		5			36214	05/23/22 15:20	JSP	TAL SPK

Client Sample ID: FS-051922-07-6.0 Lab Sample ID: 590-17564-7

Date Collected: 05/19/22 14:00 Date Received: 05/19/22 16:51

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	Moisture					36197	05/20/22 09:22	M1V	TAL SPK	

Client Sample ID: FS-051922-07-6.0

Date Collected: 05/19/22 14:00 Matrix: Solid Date Received: 05/19/22 16:51 Percent Solids: 78.8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.808 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	36199	05/20/22 15:54	JSP	TAL SPK
Total/NA	Prep	5035			5.808 g	10 mL	36200	05/20/22 10:00	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	36198	05/20/22 15:54	JSP	TAL SPK
Total/NA	Prep	3550C			16.00 g	5 mL	36205	05/23/22 10:33	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36206	05/23/22 14:50	NMI	TAL SPK
Total/NA	Prep	3050B			1.90 g	50 mL	36193	05/20/22 08:05	JSP	TAL SPK
Total/NA	Analysis	6010D		5			36214	05/23/22 15:24	JSP	TAL SPK

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5/23/2022

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Matrix: Solid

Lab Sample ID: 590-17564-7

Lab Chronicle

Client: Fulcrum Environmental Job ID: 590-17564-1

Project/Site: Four Star/223516.00

Client Sample ID: FS-051922-08-8.0

Lab Sample ID: 590-17564-8 Date Collected: 05/19/22 14:15 **Matrix: Solid**

Date Received: 05/19/22 16:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			36197	05/20/22 09:24	M1V	TAL SPK

Client Sample ID: FS-051922-08-8.0

Lab Sample ID: 590-17564-8 Date Collected: 05/19/22 14:15 **Matrix: Solid** Date Received: 05/19/22 16:51 Percent Solids: 70.8

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.378 g 10 mL 36200 05/20/22 10:00 JSP TAL SPK Total/NA Analysis 8260D 0.86 mL 43 mL 36199 05/20/22 16:15 JSP TAL SPK 1 5035 10 mL TAL SPK Total/NA Prep 5.378 g 36200 05/20/22 10:00 JSP Total/NA Analysis **NWTPH-Gx** 10 0.86 mL 43 mL 36198 05/20/22 19:05 JSP TAL SPK Total/NA 3550C TAL SPK Prep 15.45 g 5 mL 36205 05/23/22 10:33 NMI Total/NA Analysis **NWTPH-Dx** 10 36206 05/23/22 15:11 NMI TAL SPK TAL SPK Total/NA Prep 3050B 2.03 g 50 mL 36193 05/20/22 08:05 JSP Total/NA Analysis 6010D 5 36214 05/23/22 15:28 JSP TAL SPK

Laboratory References:

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Fulcrum Environmental Job ID: 590-17564-1 Project/Site: Four Star/223516.00

Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	<u>F</u>	Program	Identification Number	Expiration Date			
Washington	S	State	C569	01-06-23			
The following analyte the agency does not		port, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which			
Analysis Method	Prep Method	Matrix	Analyte				
Moisture		Solid	Percent Moisture				
Moisture		Solid	Percent Solids				

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Method Summary

Client: Fulcrum Environmental Project/Site: Four Star/223516.00 Job ID: 590-17564-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK
6010D	Metals (ICP)	SW846	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
3050B	Preparation, Metals	SW846	TAL SPK
3550C	Ultrasonic Extraction	SW846	TAL SPK
5035	Closed System Purge and Trap	SW846	TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

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Chain of Custody Record 560375 & eurofins

Address. _

Environment Testing

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	Regul	atory Pro	gram	DW [NPDES		RCRA	4	Othe	r•									TAL-8	8210
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City/State/Zip: Syokane, WA 9970	CALENDAR DAYS WORKING DAYS																	For Lab Use Only		
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Project Name Four Star			weeks week			Z >		9	و		1 1							Lab Sampling		
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Sample Identification	Date	Time	(C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sam	1	Ź										Sample Spe	cific Notes.	
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Preservation Used: 1= lce, 2= HCl; 3= H2SO4; 4=HNO3;	5=NaOH;	6≡ Other_								ì.										
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Pleas Comments Section if the lab is to dispose of the sample	e List any I	EPA Waste	Codes for	the samp	ole in the		ampl	e Di	sposa	(A fe	e may b	e asse	ssed i	f sam	ples	are re	taine	ed longer than 1 mon	ith)	
□ Non-Hazard □ Flammable □ Skin Irritant	Poison	В	Unkno	own		-	□ R	.eturr	to Clier	t		isposal	by Lab] Archive	e for_	Months		
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Client: Fulcrum Environmental

Job Number: 590-17564-1

SDG Number:

Login Number: 17564 List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

Creator. Vaugnan, Madison 1		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	