



Incident Number: nAPP2226241849

Incident Closure

Prometheus Frac Line

Section 27, Township 24 South, Range 35 East

County: Lea

Vertex File Number: 23E-03329

Prepared for:

Ace Fluid Solutions

Prepared by:

Vertex Resource Services Inc.

Date:

February 2024

Ace Fluid Solutions
Prometheus Frac Line

Incident Closure
February 2024

Incident Closure
Prometheus Frac Line
Section 27, Township 24 South, Range 35 East
County: Lea

Prepared for:
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February 8, 2024

Date



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February 8, 2024

Date

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1.0 Introduction

Ace Fluid Solutions (Ace) retained Vertex Resource Services Inc. (Vertex) to conduct an Incident Closure for a produced water release that occurred on September 12, 2022, on the Prometheus Frac Line (hereafter referred to as the “site”). Tap Rock Operating submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 1 on September 19, 2022. Incident ID number nAPP2226241849 was assigned to this incident.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that a reclamation plan for the site and surrounding areas will be completed following remediation activities as per NMAC 19.15.29.13.

2.0 Incident Description

The release was caused by miscommunication among field personnel and involved the release of approximately 3,249 barrels (bbls) of produced water into the pasture along the pipeline right-of-way. Approximately 240 bbls of free fluid was removed during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

3.0 Site Characteristics

The site is located approximately 23 miles west-northwest of Jal, New Mexico. The legal location for the site is Section 27, Township 24 South, Range 35 East in Lea County, New Mexico. The release area is located on New Mexico State Trust land. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production, fluid transportation, utility infrastructure, and storage. The following sections specifically describe the release area in the pipeline right-of-way (Figure 1).

The surrounding landscape is associated with plains with elevations ranging between 3,000 and 3,900 feet. The climate is semiarid with average annual precipitation ranging between 10 and 12 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grassland with scattered shrubs. Grasses dominate the historic plant community, with shrubs becoming more dominant (United States Department of Agriculture, Natural Resources Conservation Service, 2023).

The surface geology at the site is primarily Qa – Alluvium from the Holocene to upper Pleistocene ages (New Mexico Bureau of Geology and Mineral Resources, 2023) and the soil at the site is characterized as fine sand (United States Department of Agriculture, Natural Resources Conservation Service, 2023). This soil type is classified as high drainage with negligible runoff. The karst geology potential for the site is Low (United States Department of the Interior, Bureau of Land Management, 2018).

4.0 Closure Criteria Determination

The depth to groundwater was determined by drilling a borehole permitted by the New Mexico Office of the State Engineer (NMOSE) within a 0.5 mile radius of the site. The borehole was advanced to a depth of 100 feet and left to recharge as per the requirements on the WR-07 Application for Permit to Drill a Well with No Water Rights. No groundwater was present at the conclusion of the 72 hour recharge period. The borehole was plugged and abandoned according to the WR-08 permit, Well Plugging Plan of Operations, filed with NMOSE. Documentation related to the exploratory borehole is included in Appendix B.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is a riverine located approximately 0.46 miles east of the site (United States Fish and Wildlife Service, 2023). No lakebeds, sinkholes, playa lakes or other critical water or community features exist near the site as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. All supporting documents relevant to the determination of site closure criteria are included in Appendix B.

Ace Fluid Solutions
Prometheus Frac Line

Incident Closure
February 2024

Table 1. Closure Criteria Determination			
Site Name: Prometheus Frac Line			
Spill Coordinates: 32.19560, -103.574664		X: 634350.04	Y: 3563007.31
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	>100	feet
	Distance between release and nearest DTGW reference	1,062	feet
		0.20	miles
	Date of nearest DTGW reference measurement	March 27, 2023	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	2,441	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	119,695	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	7,211	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	5,204	feet
	ii) Within 1000 feet of any fresh water well or spring	5,204	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	6,069	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	112,033	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest high- or critical-karst zone	59,230	feet
10	Within a 100-year Floodplain	Undetermined	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	60,495	feet
11	Soil Type	Pyote and Maljamar fine sands	
12	Ecological Classification	Loamy sand R070BD003NM	
13	Geology	Qa - alluvium (Holocene to upper Pleistocene)	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils to Remediation & Reclamation Standards		
0-4 feet bgs (19.15.29.13)	Constituent	Limit
	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
DTGW > 100 feet (19.15.29.12)	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

bgs – below ground surface
DTGW – depth to groundwater
TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics
BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

An initial site inspection of the release area was completed on June 6, 2023 which identified the area of the release specified in the initial C-141 Report. The impacted area was determined to be approximately 2,525 feet long and 544 feet wide; the total affected area is 1,373,600 square feet.

Remediation efforts began on June 12, 2023 and were finalized on January 19, 2024. Vertex personnel supervised the excavation of impacted soils. An electromagnetic (EM) survey was performed in the release area to assist in delineation (Figure 2). Field screening was completed on a total of 313 base sample points and 207 wall samples, and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dextsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and silver nitrate titration and electrical conductivity (chlorides). Characterization laboratory results are summarized in Table 3. Field screening results and Daily Field Reports documenting various phases of the remediation are presented in Appendix C. A Remediation Workplan was submitted to NMOCD following delineation and was accepted with conditions on September 14, 2023. Correspondence regarding the acceptance of the workplan is included in Appendix D.

During excavation, field screening results were used to identify areas requiring further remediation. Soils were removed to a depth of 4 feet below ground surface (bgs). Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility.

Notifications of confirmatory sampling activities were provided to the NMOCD at least 48 hours before each sampling event and are included in Appendix D. A 400 square foot confirmation sampling variance was requested and approved by NMOCD for all base samples at 4 ft bgs, which is documented in the email in Appendix D. Confirmatory composite samples were collected from the base and walls of the excavation, and remaining impacted areas in 200 square foot increments. A total of 370 samples were collected for laboratory analysis following NMOCD soil sampling procedures.

Samples were submitted to Hall Environmental Analysis Laboratory under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix E. Confirmatory sampling site schematics are presented on Figures 3a to 3c. All confirmatory samples collected and analyzed were below closure criteria for the site.

6.0 Closure Request

The release area was fully delineated and remediated by January 19, 2024. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations “greater than 100 feet to groundwater”. The site was backfilled with uncontaminated local soil and will be seeded with the SLO loamy sites seed mixture when conditions are favorable. The goal of reclamation is to return the land to natural capability and match that of the areas immediately surrounding the site, which consists of rangeland. If site conditions are at or nearing background conditions following reclamation activities, a final report will be completed and submitted. Based on these findings and future plans, Ace Fluid Solutions requests that this remediation be approved.

Should you have any questions or concerns, please do not hesitate to contact Michael Moffitt at 575.988.2681 or mmoffitt@vertex.ca.

7.0 References

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8.0 Limitations

This report has been prepared for the sole benefit of Ace Fluid Solutions. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the New Mexico State Land Office, without the express written consent of Vertex Resource Services Inc. (Vertex) and Ace Fluid Solutions. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

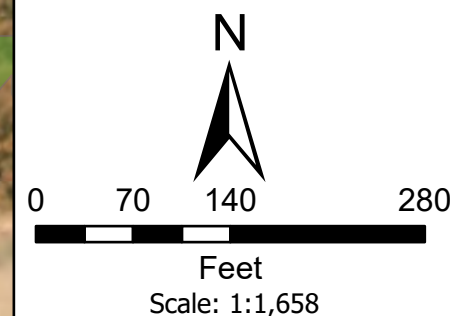
The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

FIGURES



Legend

- Point of Release
- Soil Boring (SB)
- Test Pit (BH)
- - - Above Grade Pipeline
- Below Grade Pipeline
- Release Area



Point of Release Coordinates:
-103.35750W 32.19560N

Site and Sample Location Map
Prometheus Frac Line Release - Ace Fluid Solutions
S: 28 T: 24S R: 33E, Lea County, New Mexico

Figure 1a

Revisions

By: _____ Date: _____ Descr: _____
By: _____ Date: _____ Descr: _____

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Drawn
Date
Checked
Approved

Sarahmay Schlea
11/11/2022

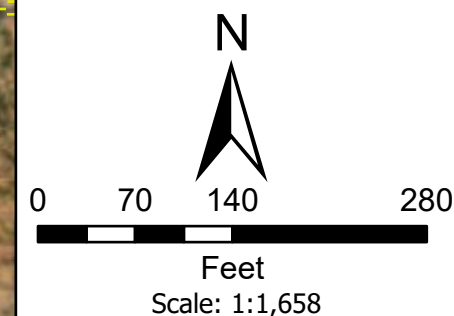


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Legend

- Point of Release
- Soil Boring (SB)
- Test Pit (BH)
- - - Above Grade Pipeline
- Below Grade Pipeline
- Release Area



Point of Release Coordinates:
-103.35750W 32.19560N

Site and Sample Location Map
Prometheus Frac Line Release - Ace Fluid Solutions
S: 28 T: 24S R: 33E, Lea County, New Mexico

Figure 1b

Revisions

By: _____ Date: _____ Descr: _____
By: _____ Date: _____ Descr: _____

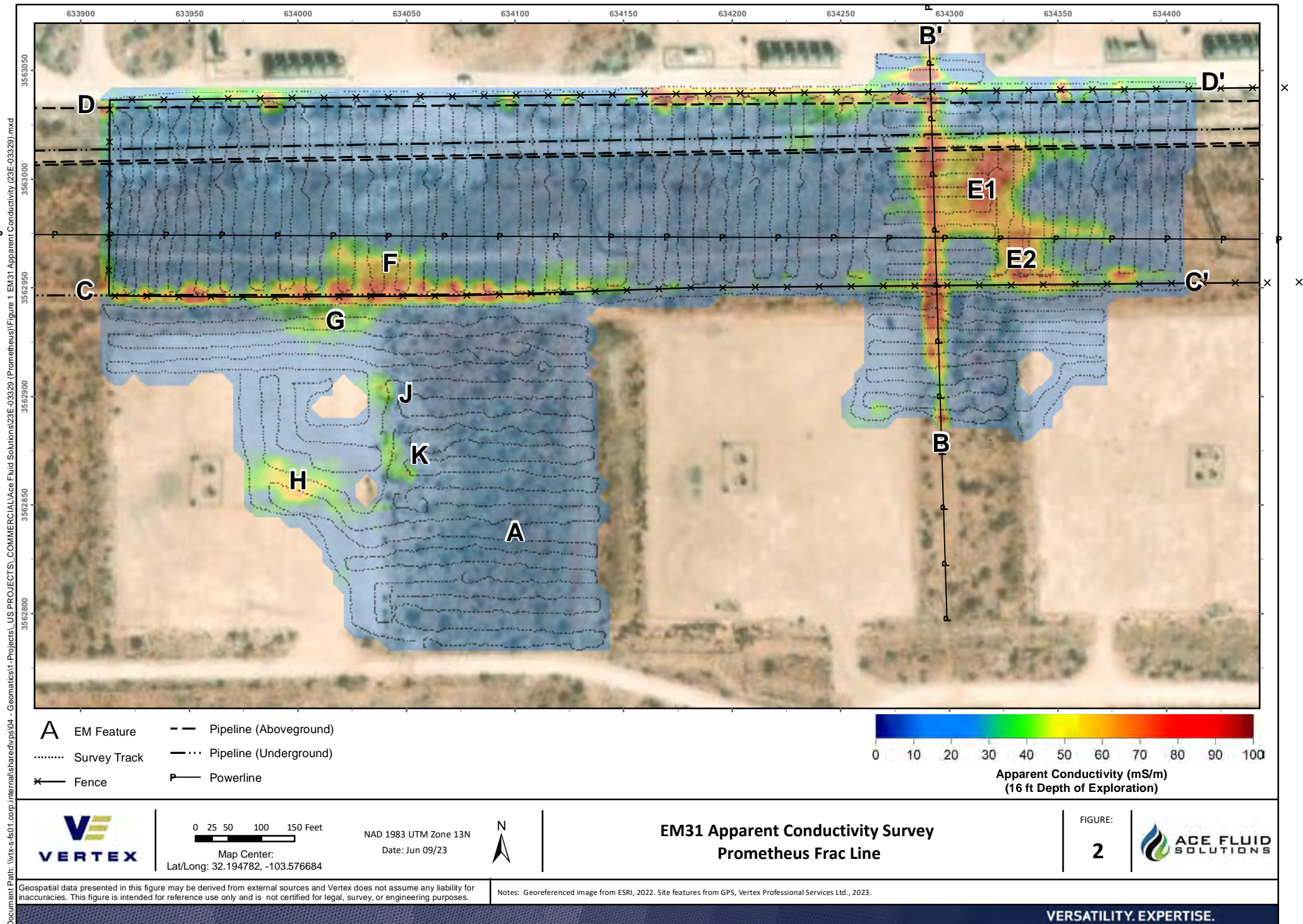
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Date
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Approved

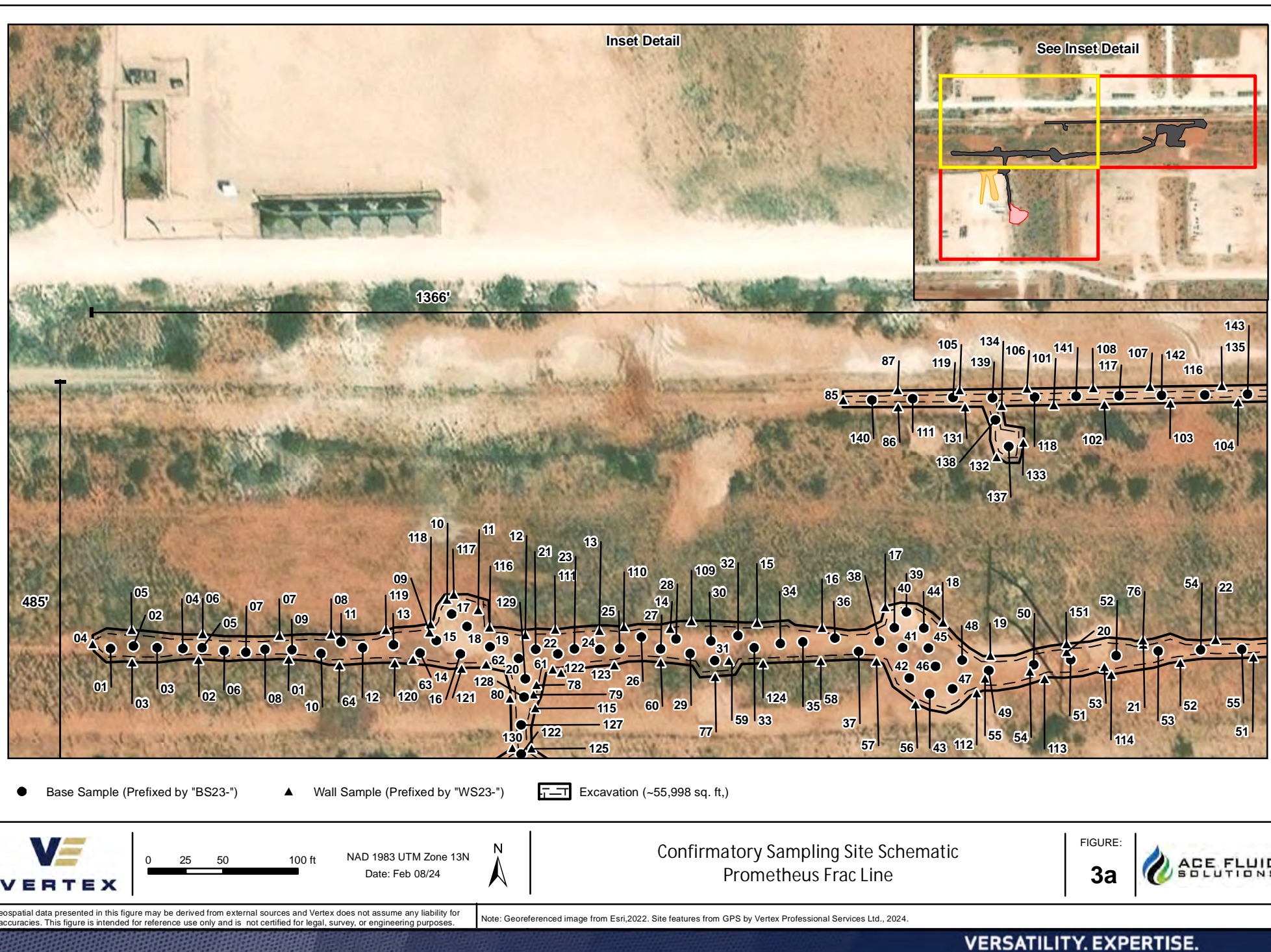
Sarahmay Schlea
11/11/2022

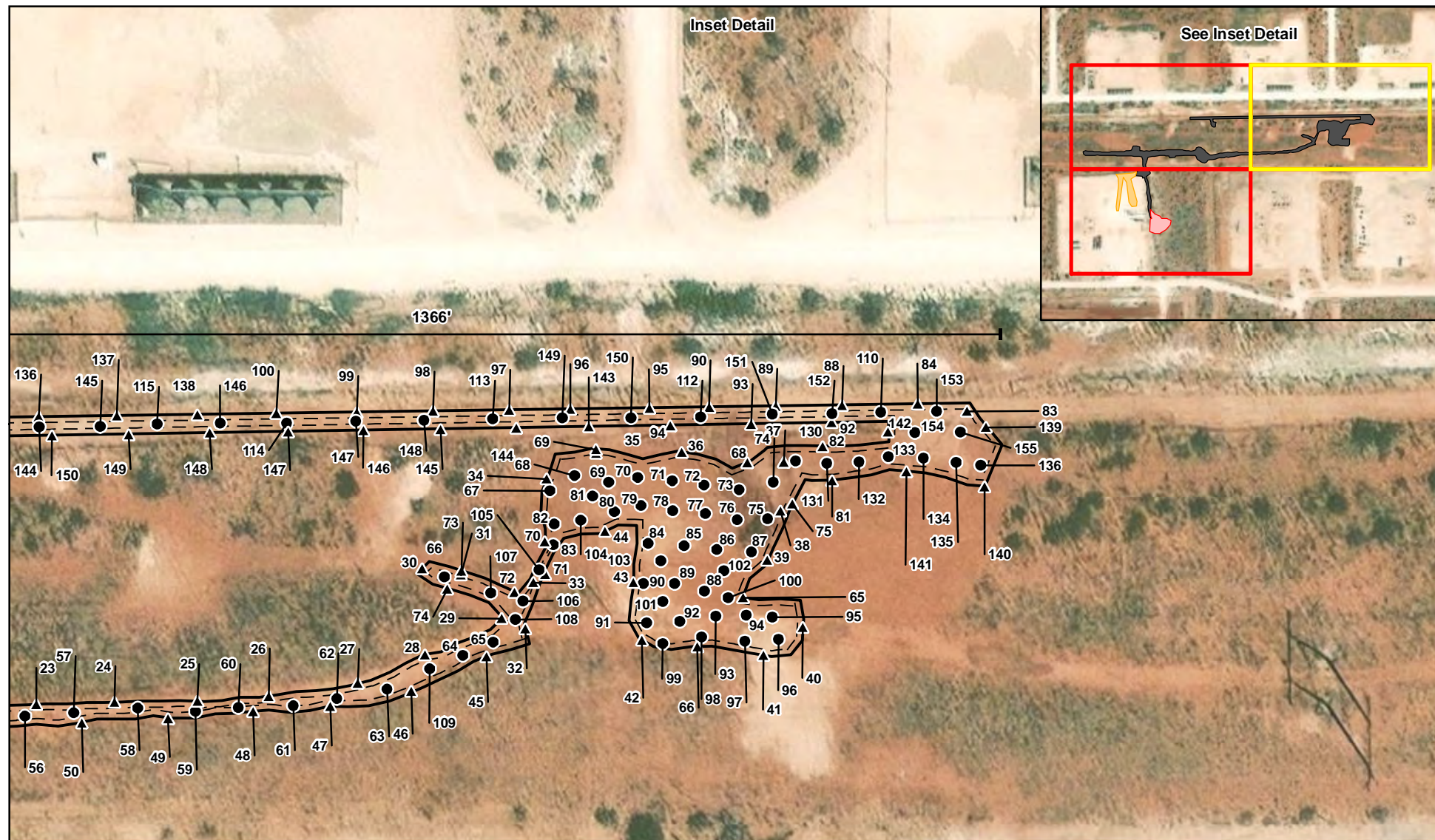


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Document Path: G:\Projects\US Projects\COMMERCIAL\Ace Fluid Solutions\23E-03329 (Prometheus)\Figure 3 Excavation Progress 20240118 (23E-03329)\D17665.mxd





0 25 50 100 ft

NAD 1983 UTM Zone 13N
Date: Feb 08/24



Confirmatory Sampling Site Schematic Prometheus Frac Line

FIGURE:

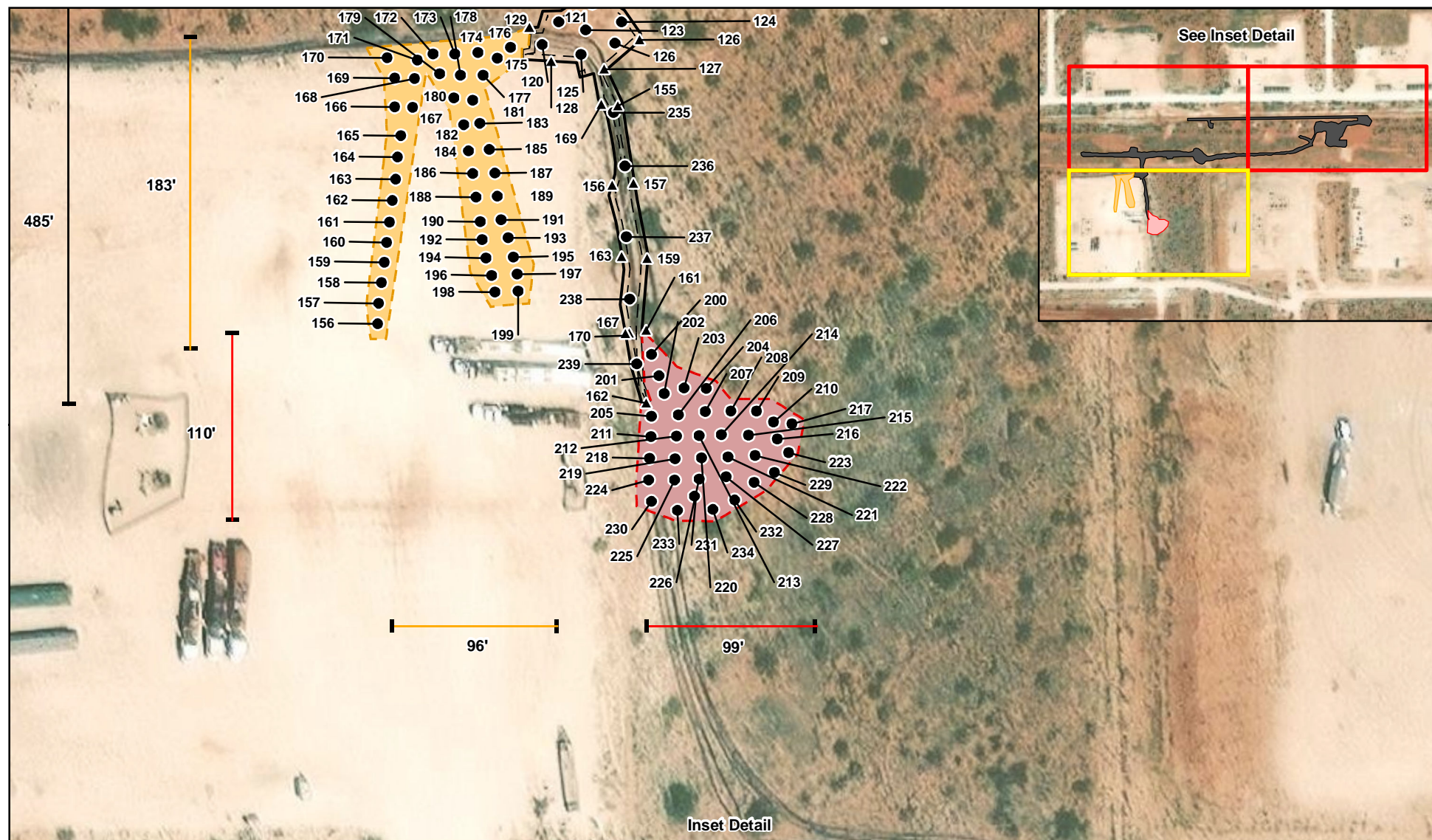
3b



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2022. Site features from GPS by Vertex Professional Services Ltd., 2024.

VERSATILITY. EXPERTISE.



- Base Sample (Prefixed by "BS23-")
- ▲ Wall Sample (Prefixed by "WS23-")
- East Release Area (~6,740 sq. ft.)
- West Release Area (~8,525 sq. ft.)
- Excavation (~55,998 sq. ft.)



0 25 50 100 ft

NAD 1983 UTM Zone 13N
Date: Feb 20/24



Confirmatory Sampling Site Schematic Prometheus Frac Line

FIGURE:

3c



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Note: Georeferenced image from Esri, 2022. Site features from GPS by Vertex Professional Services Ltd., 2024.

VERSATILITY. EXPERTISE.

TABLES

Client Name: Ace Fluid Solutions

Site Name: Prometheus Frac Line

NMOCD Tracking #: nAPP2226241849

Project #: 23E-03329

Lab Reports: 2312262, 2312088, 2312011, 2311922, 2311735, 2311674, 2311451, 2311345, 2311276, 2311217, 2311164, 2311066, 2311C30, 2311A03, 2309H62, 2312259, 2312561, 2401479, 2401882

Table 3. Confirmatory Sample Field Screen and Laboratory Results (Excavation Walls) - Depth to Groundwater >100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
WS23-01	0-4	September 28, 2023	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND
WS23-02	0-4	September 28, 2023	-	22	2	ND	ND	ND	ND	ND	ND	ND	ND
WS23-03	0-4	September 28, 2023	-	-	75	ND	ND	ND	ND	ND	ND	ND	ND
WS23-04	0-4	September 28, 2023	-	0	676	ND	ND	ND	ND	ND	ND	ND	360
WS23-05	0-4	September 28, 2023	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND
WS23-06	0-4	September 28, 2023	-	0	0	ND	ND	ND	ND	ND	ND	ND	ND
WS23-07	0-4	September 28, 2023	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND
WS23-08	0-4	November 30, 2023	0	22	148	ND	ND	ND	ND	ND	ND	ND	96
WS23-15	0-4	November 10, 2023	0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS23-16	0-4	November 10, 2023	0	-	ND	ND	ND	ND	ND	ND	ND	ND	110
WS23-17	0-4	November 10, 2023	0	-	101	ND	ND	ND	ND	ND	ND	ND	87
WS23-18	0-4	November 10, 2023	0	-	230	ND	ND	ND	ND	ND	ND	ND	380
WS23-19	0-4	November 10, 2023	0	-	44	ND	ND	ND	ND	ND	ND	ND	170
WS23-22	0-4	November 7, 2023	0	33	245	ND	ND	ND	ND	ND	ND	ND	280
WS23-23	0-4	November 6, 2023	-	28	ND	ND	ND	ND	ND	ND	ND	ND	61
WS23-24	0-4	November 6, 2023	-	24	ND	ND	ND	ND	ND	ND	ND	ND	250
WS23-25	0-4	November 29, 2023	0	34	526	ND	ND	ND	ND	ND	ND	ND	240
WS23-26	0-4	November 3, 2023	0	47	333	ND	ND	ND	ND	ND	ND	ND	100
WS23-27	0-4	November 3, 2023	0	35	67	ND	ND	ND	ND	ND	ND	ND	66
WS23-28	0-4	November 3, 2023	0	52	20	ND	ND	ND	ND	ND	ND	ND	ND
WS23-29	0-4	November 2, 2023	0	41	126	ND	ND	ND	ND	ND	ND	ND	78
WS23-30	0-4	November 2, 2023	0	24	99	ND	ND	ND	ND	ND	ND	ND	ND
WS23-32	0-4	November 2, 2023	0	29	17	ND	ND	ND	ND	ND	ND	ND	ND
WS23-34	0-4	December 7, 2023	0	1	552	ND	ND	ND	ND	ND	ND	ND	380
WS23-36	0-4	November 1, 2023	0	28	232	ND	ND	ND	ND	ND	ND	ND	ND
WS23-39	0-4	October 31, 2023	0	31	388	ND	ND	ND	ND	ND	ND	ND	79
WS23-40	0-4	October 31, 2023	0	28	490	ND	ND	ND	ND	ND	ND	ND	83
WS23-41	0-4	October 31, 2023	0	30	365	ND	ND	ND	ND	ND	ND	ND	110
WS23-42	0-4	October 31, 2023	0	24	163	ND	ND	ND	ND	ND	ND	ND	ND
WS23-43	0-4	October 31, 2023	0	32	314	ND	ND	ND	ND	ND	ND	ND	180
WS23-44	0-4	November 1, 2023	0	43	552	ND	ND	ND	ND	ND	ND	ND	99
WS23-45	0-4	November 3, 2023	0	53	215	ND	ND	ND	13	ND	13	13	85
WS23-46	0-4	November 3, 2023	0	43	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS23-47	0-4	November 3, 2023	0	43	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS23-48	0-4	November 6, 2023	-	19	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS23-49	0-4	November 6, 2023	-	23	ND	ND	ND	ND	ND	ND	ND	ND	76
WS23-50	0-4	November 6, 2023	-	22	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS23-51	0-4	November 7, 2023	-	18	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS23-52	0-4	November 7, 2023	-	25	479	ND	ND	ND	ND	ND	ND	ND	450
WS23-56	0-4	November 10, 2023	0	-	401	ND	ND	ND	ND	ND	ND	ND	510
WS23-57	0-4	November 7, 2023	0	-	ND	ND	ND	ND	ND	ND	ND	ND	65
WS23-58	0-4	November 7, 2023	0	-	30	ND	ND	ND	ND	ND	ND	ND	ND
WS23-59	0-4	November 7, 2023	0	-	0	ND	ND	ND	ND	ND	ND	ND	410
WS23-60	0-4	November 10, 2023	0	-	249	ND	ND	ND	ND	ND	ND	ND	130
WS23-64	0-4	November 30, 2023	0	12	7	ND	ND	ND	ND	ND	ND	ND	ND
WS23-65	0-4	October 31, 2023	0	22	291	ND	ND	ND	ND	ND	ND	ND	ND
WS23-66	0-4	October 31, 2023	0	29	318	ND	ND	ND	ND	ND	ND	ND	63
WS23-67	0-4	October 31, 2023	0	35	170	ND	ND	ND	ND	ND	ND	ND	120
WS23-68	0-4	November 1, 2023	0	45	490	ND	ND	ND	ND	ND	ND	ND	ND
WS23-69	0-4	November 1, 2023	0	47	399	ND	ND	ND	ND	ND	ND	ND	ND
WS23-70	0-4	November 1, 2023	0	23	259	ND	ND	ND	ND	ND	ND	ND	ND
WS23-71	0-4	November 2, 2023	0	20	121	ND	ND	ND	ND	ND	ND	ND	ND
WS23-72	0-4	November 2, 2023	0	26	135	ND	ND	ND	ND	ND	ND	ND	ND

Client Name: Ace Fluid Solutions
Site Name: Prometheus Frac Line
NMOCD Tracking #: nAPP2226241849
Project #: 23E-03329
Lab Reports: 2312262, 2312088, 2312011, 2311922, 2311735, 2311674, 2311451, 2311345, 2311276, 2311217, 2311164, 2311066, 2311C30, 2311A03, 2309H62, 2312259, 2312561, 2401479, 2401882

Table 3. Confirmatory Sample Field Screen and Laboratory Results (Excavation Walls) - Depth to Groundwater >100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
WS23-73	0-4	November 2, 2023	0	26	327	ND	ND	ND	ND	ND	ND	ND	100
WS23-74	0-4	November 2, 2023	0	16	17	ND	ND	ND	ND	ND	ND	ND	ND
WS23-75	0-4	November 3, 2023	0	26	135	ND	ND	ND	ND	ND	ND	ND	ND
WS23-76	0-4	November 7, 2023	-	6	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS23-77	0-4	November 10, 2023	0	-	372	ND	ND	ND	ND	ND	ND	ND	70
WS23-80	0-4	November 10, 2023	0	-	245	ND	ND	ND	ND	ND	ND	ND	210
WS23-81	0-4	November 13, 2023	0	-	342	ND	ND	ND	ND	ND	ND	ND	110
WS23-82	0-4	November 13, 2023	0	-	62	ND	ND	ND	ND	ND	ND	ND	ND
WS23-84	0-4	November 14, 2023	0	24	150	ND	ND	ND	ND	ND	ND	ND	230
WS23-85	0-4	November 14, 2023	0	26	178	ND	ND	ND	ND	ND	ND	ND	120
WS23-86	0-4	November 14, 2023	0	27	525	ND	ND	ND	ND	ND	ND	ND	210
WS23-87	0-4	November 14, 2023	0	32	754	ND	ND	ND	ND	ND	ND	ND	240
WS23-88	0-4	December 2, 2023	0	27	486	ND	ND	ND	ND	ND	ND	ND	150
WS23-89	0-4	December 2, 2023	0	51	477	ND	ND	ND	ND	ND	ND	ND	160
WS23-90	0-4	December 2, 2023	0	35	194	ND	ND	ND	ND	ND	ND	ND	ND
WS23-92	0-4	December 2, 2023	0	25	291	ND	ND	ND	ND	ND	ND	ND	ND
WS23-93	0-4	December 2, 2023	0	26	523	ND	ND	ND	ND	ND	ND	ND	ND
WS23-94	0-4	December 2, 2023	0	26	405	ND	ND	ND	ND	ND	ND	ND	ND
WS23-95	0-4	December 2, 2023	0	51	17	ND	ND	ND	ND	ND	ND	ND	ND
WS23-96	0-4	November 16, 2023	0	-	316	ND	ND	ND	ND	ND	ND	ND	93
WS23-97	0-4	November 16, 2023	0	-	126	ND	ND	ND	ND	ND	ND	ND	92
WS23-98	0-4	November 16, 2023	0	-	215	ND	ND	ND	ND	ND	ND	ND	ND
WS23-99	0-4	November 16, 2023	0	-	321	ND	ND	ND	ND	ND	ND	ND	140
WS23-100	0-4	November 16, 2023	0	13	372	ND	ND	ND	ND	ND	ND	ND	310
WS23-101	0-4	November 17, 2023	0	20	360	ND	ND	ND	ND	ND	ND	ND	280
WS23-102	0-4	November 17, 2023	0	21	318	ND	ND	ND	ND	ND	ND	ND	340
WS23-103	0-4	November 17, 2023	0	51	242	ND	ND	ND	ND	ND	ND	ND	230
WS23-104	0-4	November 17, 2023	0	29	112	ND	ND	ND	ND	ND	ND	ND	120
WS23-105	0-4	November 17, 2023	0	32	241	ND	ND	ND	ND	ND	ND	ND	230
WS23-106	0-4	November 17, 2023	0	28	132	ND	ND	ND	ND	ND	ND	ND	110
WS23-107	0-4	November 17, 2023	0	-	112	ND	ND	ND	ND	ND	ND	ND	100
WS23-108	0-4	November 17, 2023	0	-	232	ND	ND	ND	ND	ND	ND	ND	190
WS23-109	0-4	November 29, 2023	0	36	362	ND	ND	ND	ND	ND	ND	ND	97
WS23-110	0-4	November 29, 2023	0	31	142	ND	ND	ND	ND	ND	ND	ND	65
WS23-111	0-4	November 29, 2023	0	27	101	ND	ND	ND	ND	ND	ND	ND	ND
WS23-112	0-4	November 29, 2023	0	34	174	ND	ND	ND	ND	ND	ND	ND	64
WS23-113	0-4	November 29, 2023	0	20	53	ND	ND	ND	ND	ND	ND	ND	ND
WS23-114	0-4	November 29, 2023	0	25	57	ND	ND	ND	ND	ND	ND	ND	ND
WS23-115	0-4	November 29, 2023	0	26	82	ND	ND	ND	ND	ND	ND	ND	ND
WS23-116	0-4	November 30, 2023	0	49	342	ND	ND	ND	ND	ND	ND	ND	87
WS23-117	0-4	November 30, 2023	0	17	90	ND	ND	ND	ND	ND	ND	ND	ND
WS23-118	0-4	November 30, 2023	0	21	516	ND	ND	ND	ND	ND	ND	ND	74
WS23-119	0-4	November 30, 2023	0	22	28	ND	ND	ND	ND	ND	ND	ND	ND
WS23-120	0-4	November 30, 2023	0	12	44	ND	ND	ND	ND	ND	ND	ND	ND
WS23-121	0-4	November 30, 2023	0	31	189	ND	ND	ND	ND	ND	ND	ND	98
WS23-122	0-4	November 30, 2023	0	25	505	ND	ND	ND	ND	ND	ND	ND	ND
WS23-123	0-4	November 30, 2023	0	36	53	ND	ND	ND	ND	ND	ND	ND	ND
WS23-124	0-4	November 30, 2023	0	22	40	ND	ND	ND	ND	ND	ND	ND	ND
WS23-125	0-4	December 1, 2023	0	29	151	ND	ND	ND	ND	ND	ND	ND	67
WS23-126	0-4	December 1, 2023	0	44	264	ND	ND	ND	ND	ND	ND	ND	85
WS23-127	0-4	December 1, 2023	0	46	568	ND	ND	ND	ND	ND	ND	ND	190
WS23-128	0-4	December 1, 2023	0	33	552	ND	ND	ND	ND	ND	ND	ND	250
WS23-129	0-4	December 1, 2023	0	21	183	ND	ND	ND	ND	ND	ND	ND	64



Client Name: Ace Fluid Solutions
Site Name: Prometheus Frac Line
NMOCD Tracking #: nAPP2226241849
Project #: 23E-03329
Lab Reports: 2312262, 2312088, 2312011, 2311922, 2311735, 2311674, 2311451, 2311345, 2311276, 2311217, 2311164, 2311066, 2311C30, 2311A03, 2309H62, 2312259, 2312561, 2401479, 2401882

Table 3. Confirmatory Sample Field Screen and Laboratory Results (Excavation Walls) - Depth to Groundwater >100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
WS23-130	0-4	December 1, 2023	0	32	264	ND	ND	ND	ND	ND	ND	ND	110
WS23-131	0-4	December 2, 2023	0	46	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS23-132	0-4	December 2, 2023	0	27	82	ND	ND	ND	ND	ND	ND	ND	ND
WS23-133	0-4	December 2, 2023	0	32	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS23-134	0-4	December 2, 2023	0	31	178	ND	ND	ND	ND	ND	ND	ND	86
WS23-135	0-4	December 2, 2023	0	13	526	ND	ND	ND	ND	ND	ND	ND	61
WS23-136	0-4	December 2, 2023	0	39	487	ND	ND	ND	ND	ND	ND	ND	79
WS23-137	0-4	December 2, 2023	0	26	291	ND	ND	ND	ND	ND	ND	ND	ND
WS23-138	0-4	December 2, 2023	0	55	372	ND	ND	ND	ND	ND	ND	ND	ND
WS23-139	0-4	December 2, 2023	0	32	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS23-140	0-4	December 2, 2023	0	49	336	ND	ND	ND	ND	ND	ND	ND	140
WS23-141	0-4	December 2, 2023	0	20	2	ND	ND	ND	ND	ND	ND	ND	ND
WS23-142	0-4	December 2, 2023	0	31	295	ND	ND	ND	ND	ND	ND	ND	89
WS23-143	0-4	December 2, 2023	0	23	500	ND	ND	ND	ND	ND	ND	ND	64
WS23-144	0-4	December 2, 2023	0	17	587	ND	ND	ND	ND	ND	ND	ND	90
WS23-145	0-4	December 2, 2023	0	24	350	ND	ND	ND	ND	ND	ND	ND	ND
WS23-146	0-4	December 2, 2023	0	20	444	ND	ND	ND	ND	ND	ND	ND	ND
WS23-147	0-4	December 2, 2023	0	36	620	ND	ND	ND	ND	ND	ND	ND	67
WS23-148	0-4	December 2, 2023	0	36	370	ND	ND	ND	ND	ND	ND	ND	ND
WS23-149	0-4	December 2, 2023	0	25	352	ND	ND	ND	ND	ND	ND	ND	ND
WS23-150	0-4	December 2, 2023	0	45	75	ND	ND	ND	ND	ND	ND	ND	ND
WS23-151	0-4	December 7, 2023	0	5	578	ND	ND	ND	ND	ND	ND	ND	380
WS24-155	0-4	January 10, 2024	0	1	430	ND	ND	ND	ND	ND	ND	ND	280
WS24-156	0-4	January 10, 2024	0	5	497	ND	ND	ND	ND	ND	ND	ND	420
WS24-157	0-4	January 10, 2024	0	24	495	ND	ND	ND	ND	ND	ND	ND	290
WS24-159	0-4	January 10, 2024	0	0	549	ND	ND	ND	ND	ND	ND	ND	400
WS24-161	0-4	January 10, 2024	0	0	352	ND	ND	ND	ND	ND	ND	ND	310
WS24-162	0-4	January 10, 2024	0	0	181	ND	ND	ND	ND	ND	ND	ND	77
WS24-163	0-4	January 10, 2024	0	0	294	ND	ND	ND	ND	ND	ND	ND	180
WS24-164	0-4	January 10, 2024	0	8	324	ND	ND	ND	ND	ND	ND	ND	170
WS24-165	0-4	January 10, 2024	0	0	210	ND	ND	ND	ND	ND	ND	ND	94
WS24-166	0-4	January 10, 2024	0	17	456	ND	ND	ND	ND	ND	ND	ND	310
WS24-167	0-4	January 10, 2024	0	0	591	ND	ND	ND	ND	ND	ND	ND	710
WS24-170	0-4	January 19, 2024	0	29	375	ND	ND	ND	ND	ND	ND	ND	ND
WS24-169	0-4	January 19, 2024	0	39	325	ND	ND	ND	ND	ND	ND	ND	71

"ND" Not Detected at the Reporting Limit
"-" indicates not analyzed/assessed
Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria



Client Name: Ace Fluid Solutions

Site Name: Prometheus Frac Line

NMOCD Tracking #: nAPP2226241849

Project #: 23E-03329

Lab Reports: 2309H61, 2311066, 2311164, 2311217, 2311276, 2311345, 2311451, 2311545, 2311674, 2311735, 2311922, 2311923, 2311A03, 2311C29, 2312011, 2312088, 2312259, 2312262, 2312561, 2401253, 2401304, 2401305, 2401479, 2401882

Table 4. Confirmatory Sample Field Screen and Laboratory Results (Excavation Base) - Depth to Groundwater >100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS23-01	4	September 28, 2023	-	-	77	ND	ND	ND	ND	ND	ND	ND	200
BS23-02	4	September 28, 2023	-	30	209	ND	ND	ND	ND	ND	ND	ND	290
BS23-03	4	September 28, 2023	-	-	235	ND	ND	ND	ND	ND	ND	ND	470
BS23-04	4	September 28, 2023	-	11	82	ND	ND	ND	ND	ND	ND	ND	85
BS23-05	4	September 28, 2023	-	-	839	ND	ND	ND	ND	ND	ND	ND	680
BS23-06	4	September 28, 2023	-	36	2,902	ND	ND	ND	ND	ND	ND	ND	3,100
BS23-07	4	September 28, 2023	-	-	1,962	ND	ND	ND	ND	ND	ND	ND	2,600
BS23-08	4	September 28, 2023	-	17	1,327	ND	ND	ND	ND	ND	ND	ND	1,600
BS23-09	4	September 28, 2023	-	-	7,090	ND	ND	ND	ND	ND	ND	ND	5,700
BS23-10	4	September 28, 2023	-	22	1,235	ND	ND	ND	ND	ND	ND	ND	1,100
BS23-11	4	November 30, 2023	0	-	138	ND	ND	ND	ND	ND	ND	ND	ND
BS23-12	4	November 30, 2023	0	-	414	ND	ND	ND	ND	ND	ND	ND	110
BS23-13	4	November 30, 2023	0	-	291	ND	ND	ND	ND	ND	ND	ND	ND
BS23-14	4	November 30, 2023	0	-	167	ND	ND	ND	ND	ND	ND	ND	ND
BS23-15	4	November 30, 2023	0	-	350	ND	ND	ND	ND	ND	ND	ND	400
BS23-16	4	November 30, 2023	0	-	720	ND	ND	ND	ND	ND	ND	ND	310
BS23-17	4	November 30, 2023	0	-	347	ND	ND	ND	ND	ND	ND	ND	98
BS23-18	4	November 29, 2023	0	-	1,137	ND	ND	ND	ND	ND	ND	ND	690
BS23-19	4	November 29, 2023	0	-	803	ND	ND	ND	ND	ND	ND	ND	400
BS23-20	4	November 29, 2023	0	-	1,362	ND	ND	ND	ND	ND	ND	ND	730
BS23-21	4	November 29, 2023	0	-	925	ND	ND	ND	ND	ND	ND	ND	480
BS23-22	4	November 29, 2023	0	-	620	ND	ND	ND	ND	ND	ND	ND	300
BS23-23	4	November 29, 2023	0	-	1,248	ND	ND	ND	ND	ND	ND	ND	870
BS23-24	4	November 29, 2023	0	-	2,173	ND	ND	ND	ND	ND	ND	ND	1,600
BS23-25	4	November 29, 2023	0	-	2,039	ND	ND	ND	ND	ND	ND	ND	1,200
BS23-26	4	November 29, 2023	0	-	510	ND	ND	ND	ND	ND	ND	ND	240
BS23-27	4	November 29, 2023	0	-	1,056	ND	ND	ND	ND	ND	ND	ND	590
BS23-28	4	November 29, 2023	0	-	1,062	ND	ND	ND	ND	ND	ND	ND	610
BS23-29	4	November 29, 2023	0	-	2,169	ND	ND	ND	ND	ND	ND	ND	1,400
BS23-30	4	November 29, 2023	0	-	3,313	ND	ND	ND	22	ND	22	22	2,000
BS23-31	4	November 29, 2023	0	-	1,658	ND	ND	ND	ND	ND	ND	ND	870
BS23-32	4	November 29, 2023	0	-	2,323	ND	ND	ND	ND	ND	ND	ND	1,600
BS23-33	4	November 29, 2023	0	-	1,602	ND	ND	ND	ND	ND	ND	ND	990
BS23-34	4	November 17, 2023	0	-	629	ND	ND	ND	ND	ND	ND	ND	570
BS23-35	4	November 16, 2023	0	-	145	ND	ND	ND	ND	ND	ND	ND	200
BS23-36	4	November 16, 2023	0	-	431	ND	ND	ND	ND	ND	ND	ND	370
BS23-37	4	November 15, 2023	0	-	313	ND	ND	ND	ND	ND	ND	ND	260
BS23-38	4	November 15, 2023	0	-	218	ND	ND	ND	ND	ND	ND	ND	220
BS23-39	4	November 15, 2023	0		258	ND	ND	ND	ND	ND	ND	ND	240
BS23-40	4	November 15, 2023	0	-	295	ND	ND	ND	ND	ND	ND	ND	290
BS23-41	4	November 13, 2023	0	-	342	ND	ND	ND	ND	ND	ND	ND	410
BS23-42	4	November 13, 2023	0	-	226	ND	ND	ND	ND	ND	ND	ND	300
BS23-43	4	December 7, 2023	0	-	790	ND	ND	ND	ND	ND	ND	ND	680
BS23-44	4	November 15, 2023	0	-	350	ND	ND	ND	ND	ND	ND	ND	350
BS23-45	4	November 13, 2023	0	-	572	ND	ND	ND	ND	ND	ND	ND	490
BS23-46	4	November 13, 2023	0	-	725	ND	ND	ND	ND	ND	ND	ND	720
BS23-47	4	November 13, 2023	0	-	336	ND	ND	ND	ND	ND	ND	ND	410
BS23-48	4	November 10, 2023	0	-	793	ND	ND	ND	ND	ND	ND	ND	1,000
BS23-49	4	November 10, 2023	0	-	477	ND	ND	ND	ND	ND	ND	ND	320
BS23-50	4	November 10, 2023	0	-	698	ND	ND	ND	ND	ND	ND	ND	510
BS23-51	4	November 13, 2023	0	-	546	ND	ND	ND	ND	ND	ND	ND	390
BS23-52	4	November 10, 2023	0	-	779	ND	ND	ND	ND	ND	ND	ND	550
BS23-53	4	November 8, 2023	-	-	464	ND	ND	ND	ND	ND	ND	ND	490
BS23-54	4	November 8, 2023	-	-	476	ND	ND	ND	ND	ND	ND	ND	380

Client Name: Ace Fluid Solutions

Site Name: Prometheus Frac Line

NMOCD Tracking #: nAPP2226241849

Project #: 23E-03329

Lab Reports: 2309H61, 2311066, 2311164, 2311217, 2311276, 2311345, 2311451, 2311545, 2311674, 2311735, 2311922, 2311923, 2311A03, 2311C29, 2312011, 2312088, 2312259, 2312262, 2312561, 2401253, 2401304, 2401305, 2401479, 2401882

Table 4. Confirmatory Sample Field Screen and Laboratory Results (Excavation Base) - Depth to Groundwater >100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS23-55	4	November 8, 2023	-	-	495	ND	ND	ND	ND	ND	ND	ND	450
BS23-56	4	November 8, 2023	-	-	536	ND	ND	ND	ND	ND	ND	ND	510
BS23-57	4	November 7, 2023	-	-	105	ND	ND	ND	ND	ND	ND	ND	290
BS23-58	4	November 7, 2023	-	-	124	ND	ND	ND	ND	ND	ND	ND	330
BS23-59	4	November 7, 2023	-	-	176	ND	ND	ND	ND	ND	ND	ND	410
BS23-60	4	November 7, 2023	-	-	353	ND	ND	ND	ND	ND	ND	ND	470
BS23-61	4	November 3, 2023	0	-	141	ND	ND	ND	ND	ND	ND	ND	310
BS23-62	4	November 6, 2023	-	49	33	ND	ND	ND	ND	ND	ND	ND	360
BS23-63	4	November 6, 2023	-	55	128	ND	ND	ND	ND	ND	ND	ND	370
BS23-64	4	November 3, 2023	0	-	607	ND	ND	ND	ND	ND	ND	ND	130
BS23-65	4	November 3, 2023	0	-	624	ND	ND	ND	ND	ND	ND	ND	360
BS23-66	4	November 2, 2023	0	-	663	ND	ND	ND	ND	ND	ND	ND	510
BS23-67	4	December 7, 2023	0	-	352	ND	ND	ND	ND	ND	ND	ND	130
BS23-68	4	November 1, 2023	0	-	1,202	ND	ND	ND	ND	ND	ND	ND	830
BS23-69	4	November 1, 2023	0		1,437	ND	ND	ND	ND	ND	ND	ND	1,100
BS23-70	4	November 1, 2023	0	-	941	ND	ND	ND	ND	ND	ND	ND	490
BS23-71	4	November 1, 2023	0	-	1,311	ND	ND	ND	ND	ND	ND	ND	770
BS23-72	4	November 1, 2023	0	-	2,304	ND	ND	ND	ND	ND	ND	ND	2,200
BS23-73	4	November 1, 2023	0	-	1,382	ND	ND	ND	ND	ND	ND	ND	910
BH23-74	4	November 1, 2023	0	-	3,157	ND	ND	ND	ND	ND	ND	ND	2,200
BS23-75	4	November 1, 2023	0	-	5,487	ND	ND	ND	ND	ND	ND	ND	4,100
BS23-76	4	November 1, 2023	0	-	3,308	ND	ND	ND	ND	ND	ND	ND	2,400
BS23-77	4	November 1, 2023	0	-	1,980	ND	ND	ND	ND	ND	ND	ND	1,500
BS23-78	4	November 1, 2023	0	-	3,312	ND	ND	ND	ND	ND	ND	ND	2,700
BS23-79	4	November 1, 2023	0	-	3,458	ND	ND	ND	ND	ND	ND	ND	2,300
BS23-80	4	November 1, 2023	0	-	668	ND	ND	ND	ND	ND	ND	ND	310
BS23-81	4	November 1, 2023	0	-	1,365	ND	ND	ND	ND	ND	ND	ND	670
BS23-82	4	November 1, 2023	0	-	3,387	ND	ND	ND	ND	ND	ND	ND	2,200
BS23-83	4	November 2, 2023	0	-	2,501	ND	ND	ND	ND	ND	ND	ND	1,300
BS23-84	4	October 31, 2023	0	-	1,066	ND	ND	ND	ND	ND	ND	ND	510
BS23-85	4	October 31, 2023	0	-	1,154	ND	ND	ND	ND	ND	ND	ND	550
BS23-86	4	October 31, 2023	0	-	463	ND	ND	ND	ND	ND	ND	ND	200
BS23-87	4	October 31, 2023	0	-	1,259	ND	ND	ND	ND	ND	ND	ND	670
BS23-88	4	October 31, 2023	0	-	2,123	ND	ND	ND	ND	ND	ND	ND	1,500
BS23-89	4	October 31, 2023	0	-	2,899	ND	ND	ND	ND	ND	ND	ND	2,100
BS23-90	4	October 31, 2023	0	-	1,866	ND	ND	ND	ND	ND	ND	ND	1,200
BS23-91	4	October 31, 2023	0	-	1,880	ND	ND	ND	ND	ND	ND	ND	1,700
BS23-92	4	October 31, 2023	0	-	1,078	ND	ND	ND	ND	ND	ND	ND	960
BS23-93	4	October 31, 2023	0	-	1,066	ND	ND	ND	ND	ND	ND	ND	870
BS23-94	4	October 31, 2023	0	-	2,622	ND	ND	ND	ND	ND	ND	ND	2,200
BS23-95	4	October 31, 2023	0	-	4,876	ND	ND	ND	ND	ND	ND	ND	3,800
BS23-96	4	October 31, 2023	0	-	2,906	ND	ND	ND	ND	ND	ND	ND	1,700
BS23-97	4	October 31, 2023	0	-	1,946	ND	ND	ND	ND	ND	ND	ND	1,300
BS23-98	4	October 31, 2023	0	-	2,444	ND	ND	ND	11	ND	11	11	1,600
BS23-99	4	October 31, 2023	0	-	3,401	ND	ND	ND	10	ND	10	10	2,100
BS23-100	4	October 31, 2023	0	-	2,108	ND	ND	ND	11	ND	11	11	1,500
BS23-101	4	October 31, 2023	0	-	1,998	ND	ND	ND	11	ND	11	11	1,200
BS23-102	4	October 31, 2023	0	-	2,267	ND	ND	ND	10	ND	10	10	1,300
BS23-103	4	October 31, 2023	0	-	724	ND	ND	ND	9.3	ND	9.3	9.3	250
BS23-104	4	November 1, 2023	0	-	2,430	ND	ND	ND	ND	ND	ND	ND	1,400
BS23-105	4	November 2, 2023	0	-	2,582	ND	ND	ND	ND	ND	ND	ND	1,600
BS23-106	4	November 2, 2023	0	-	1,093	ND	ND	ND	ND	ND	ND	ND	690
BS23-107	4	November 2, 2023	0	-	975	ND	ND	ND	ND	ND	ND	ND	550
BS23-108	4	November 2, 2023	0	-	624	ND	ND	ND	ND	ND	ND	ND	430

Client Name: Ace Fluid Solutions

Site Name: Prometheus Frac Line

NMOCD Tracking #: nAPP2226241849

Project #: 23E-03329

Lab Reports: 2309H61, 2311066, 2311164, 2311217, 2311276, 2311345, 2311451, 2311545, 2311674, 2311735, 2311922, 2311923, 2311A03, 2311C29, 2312011, 2312088, 2312259, 2312262, 2312561, 2401253, 2401304, 2401305, 2401479, 2401882

Table 4. Confirmatory Sample Field Screen and Laboratory Results (Excavation Base) - Depth to Groundwater >100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS23-109	4	November 3, 2023	0	-	666	ND	ND	ND	ND	ND	ND	ND	520
BS23-110	4	November 14, 2023	0	-	1,691	ND	ND	ND	ND	ND	ND	ND	1,100
BS23-111	4	November 14, 2023	0	-	402	ND	ND	ND	ND	ND	ND	ND	180
BS23-112	4	November 15, 2023	0	-	2,985	ND	ND	ND	ND	ND	ND	ND	3,100
BS23-113	4	November 16, 2023	0	-	994	ND	ND	ND	ND	ND	ND	ND	1,200
BS23-114	4	November 16, 2023	0	-	906	ND	ND	ND	ND	ND	ND	ND	760
BS23-115	4	November 16, 2023	0	-	1,007	ND	ND	ND	ND	ND	ND	ND	1,200
BS23-116	4	November 17, 2023	0	-	583	ND	ND	ND	ND	ND	ND	ND	830
BS23-117	4	November 17, 2023	0	-	310	ND	ND	ND	ND	ND	ND	ND	600
BS23-118	4	November 17, 2023	0	-	557	ND	ND	ND	ND	ND	ND	ND	780
BS23-119	4	November 17, 2023	0	-	189	ND	ND	ND	ND	ND	ND	ND	330
BS23-120	4	December 1, 2023	0	-	1,798	ND	ND	ND	ND	ND	ND	ND	1,100
BS23-121	4	December 1, 2023	0	-	196	ND	ND	ND	ND	ND	ND	ND	ND
BS23-122	4	December 1, 2023	0	-	3,251	ND	ND	ND	ND	ND	ND	ND	3,000
BS23-123	4	December 1, 2023	0	-	1,870	ND	ND	ND	ND	ND	ND	ND	1,300
BS23-124	4	December 1, 2023	0	-	480	ND	ND	ND	ND	ND	ND	ND	260
BS23-125	4	December 1, 2023	0	-	2,918	ND	ND	ND	ND	ND	ND	ND	2,400
BS23-126	4	December 1, 2023	0	-	1,303	ND	ND	ND	ND	ND	ND	ND	910
BS23-127	4	December 1, 2023	0	-	2,006	ND	ND	ND	ND	ND	ND	ND	1,400
BS23-128	4	December 1, 2023	0	-	2,785	ND	ND	ND	ND	ND	ND	ND	3,100
BS23-129	4	December 1, 2023	0	-	3,534	ND	ND	ND	ND	ND	ND	ND	2,600
BS23-130	4	December 2, 2023	0	-	2,749	ND	ND	ND	ND	ND	ND	ND	1,900
BS23-131	4	December 2, 2023	0	-	3,615	ND	ND	ND	ND	ND	ND	ND	2,500
BS23-132	4	December 2, 2023	0	-	2,818	ND	ND	ND	ND	ND	ND	ND	1,600
BS23-133	4	December 2, 2023	0	-	4,084	ND	ND	ND	ND	ND	ND	ND	2,900
BS23-134	4	December 2, 2023	0	-	6,038	ND	ND	ND	ND	ND	ND	ND	4,400
BS23-135	4	December 2, 2023	0	-	3,345	ND	ND	ND	ND	ND	ND	ND	2,300
BS23-136	4	December 2, 2023	0	-	2,201	ND	ND	ND	ND	ND	ND	ND	2,000
BS23-137	4	December 2, 2023	0	-	137	ND	ND	ND	ND	ND	ND	ND	ND
BS23-138	4	December 2, 2023	0	-	518	ND	ND	ND	ND	ND	ND	ND	240
BS23-139	4	December 2, 2023	0	-	912	ND	ND	ND	ND	ND	ND	ND	440
BS23-140	4	December 2, 2023	0	-	1,267	ND	ND	ND	ND	ND	ND	ND	560
BS23-141	4	December 2, 2023	0	-	1,545	ND	ND	ND	ND	ND	ND	ND	1,500
BS23-142	4	December 2, 2023	0	-	2,805	ND	ND	ND	ND	ND	ND	ND	2,000
BS23-143	4	December 2, 2023	0	-	1,564	ND	ND	ND	ND	ND	ND	ND	960
BS23-144	4	December 2, 2023	0	-	6,422	ND	ND	ND	ND	ND	ND	ND	5,700
BS23-145	4	December 2, 2023	0	-	5,679	ND	ND	ND	ND	ND	ND	ND	2,500
BS23-146	4	December 2, 2023	0	-	9,745	ND	ND	ND	ND	ND	ND	ND	6,100
BS23-147	4	December 2, 2023	0	-	3,318	ND	ND	ND	ND	ND	ND	ND	2,100
BS23-148	4	December 2, 2023	0	-	4,964	ND	ND	ND	ND	ND	ND	ND	4,400
BS23-149	4	December 2, 2023	0	-	5,703	ND	ND	ND	ND	ND	ND	ND	4,700
BS23-150	4	December 2, 2023	0	-	6,816	ND	ND	ND	ND	ND	ND	ND	6,900
BS23-151	4	December 2, 2023	0	-	7,432	ND	ND	ND	ND	ND	ND	ND	5,700
BS23-152	4	December 2, 2023	0	-	2,160	ND	ND	ND	ND	ND	ND	ND	1,600
BS23-153	4	December 2, 2023	0	-	3,941	ND	ND	ND	ND	ND	ND	ND	3,300
BS23-154	4	December 7, 2023	0	-	2,620	ND	ND	ND	ND	ND	ND	ND	2,500
BS23-155	4	December 7, 2023	0	-	2,248	ND	ND	ND	ND	ND	ND	ND	2,400
BS23-156	0	January 3, 2024	0	70	287	ND	ND	ND	ND	ND	ND	ND	78
BS23-157	0	January 3, 2024	0	88	173	ND	ND	ND	ND	ND	ND	ND	80
BS23-158	0	January 3, 2024	0	91	375	ND	ND	ND	ND	ND	ND	ND	220
BS23-159	0	January 3, 2024	0	131	515	ND	ND	ND	ND	ND	ND	ND	350
BS23-160	0	January 3, 2024	0	120	724	ND	ND	ND	ND	ND	ND	ND	350
BS23-161	0	January 3, 2024	0	127	786	ND	ND	ND	ND	51	ND	51	350
BS23-162	0	January 3, 2024	0	75	372	ND	ND	ND	ND	ND	ND	ND	78

Client Name: Ace Fluid Solutions
Site Name: Prometheus Frac Line
NMOCD Tracking #: nAPP2226241849
Project #: 23E-03329
Lab Reports: 2309H61, 2311066, 2311164, 2311217, 2311276, 2311345, 2311451, 2311545, 2311674, 2311735, 2311922, 2311923, 2311A03, 2311C29, 2312011, 2312088, 2312259, 2312262, 2312561, 2401253, 2401304, 2401305, 2401479, 2401882

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						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS23-163	0	January 3, 2024	0	121	941	ND	ND	ND	15	ND	15	15	380
BS23-164	0	January 3, 2024	0	118	548	ND	ND	ND	ND	ND	ND	ND	370
BS23-165	0	January 3, 2024	0	123	974	ND	ND	ND	ND	ND	ND	ND	370
BS23-166	0	January 3, 2024	0	100	699	ND	ND	ND	ND	ND	ND	ND	200
BS23-167	0	January 3, 2024	0	86	868	ND	ND	ND	ND	ND	ND	ND	300
BS23-168	0	January 3, 2024	0	47	550	ND	ND	ND	ND	ND	ND	ND	380
BS23-169	0	January 3, 2024	0	62	953	ND	ND	ND	ND	ND	ND	ND	380
BS23-170	0	January 3, 2024	0	38	1,013	ND	ND	ND	ND	ND	ND	ND	380
BS23-171	0	January 3, 2024	0	88	863	ND	ND	ND	ND	ND	ND	ND	290
BS24-172	0	January 6, 2024	0	72	330	ND	ND	ND	ND	ND	ND	ND	150
BS24-173	0	January 6, 2024	0	58	103	ND	ND	ND	ND	ND	ND	ND	ND
BS24-174	0	January 6, 2024	0	65	157	ND	ND	ND	ND	ND	ND	ND	ND
BS24-175	0	January 6, 2024	0	95	581	ND	ND	ND	14	ND	14	14	270
BS24-176	0	January 6, 2024	0	72	165	ND	ND	ND	ND	ND	ND	ND	ND
BS24-177	0	January 6, 2024	0	95	490	ND	ND	ND	12	ND	12	ND	ND
BS24-178	0	January 6, 2024	0	78	858	ND	ND	ND	ND	ND	ND	ND	320
BS24-179	0	January 6, 2024	0	69	916	ND	ND	ND	ND	ND	ND	ND	320
BS24-180	0	January 6, 2024	0	79	253	ND	ND	ND	ND	ND	ND	ND	68
BS24-181	0	January 6, 2024	0	75	44	ND	ND	ND	ND	ND	ND	ND	ND
BS24-182	0	January 6, 2024	0	110	730	ND	ND	ND	ND	ND	ND	ND	260
BS24-183	0	January 6, 2024	0	96	99	ND	ND	ND	ND	ND	ND	ND	ND
BS24-184	0	January 6, 2024	0	91	711	ND	NDN	ND	ND	ND	ND	ND	240
BS24-185	0	January 6, 2024	0	127	101	ND	ND	ND	16	ND	16	16	ND
BS24-186	0	January 6, 2024	0	85	658	ND	ND	ND	ND	ND	ND	ND	240
BS24-187	0	January 6, 2024	0	111	95	ND	ND	ND	ND	ND	ND	ND	ND
BS24-188	0	January 6, 2024	0	75	388	ND	ND	ND	ND	ND	ND	ND	140
BS24-189	0	January 6, 2024	0	99	129	ND	ND	ND	10	ND	10	10	ND
BS24-190	0	January 6, 2024	0	80	203	ND	ND	ND	ND	ND	ND	ND	ND
BS24-191	0	January 6, 2024	0	85	154	ND	ND	ND	ND	ND	ND	ND	ND
BS24-192	0	January 6, 2024	0	88	170	ND	ND	ND	ND	ND	ND	ND	ND
BS24-193	0	January 6, 2024	0	80	145	ND	ND	ND	ND	ND	ND	ND	ND
BS24-194	0	January 6, 2024	0	63	73	ND	ND	ND	ND	ND	ND	ND	ND
BS24-195	0	January 6, 2024	0	71	83	ND	ND	ND	ND	ND	ND	ND	ND
BS24-196	0	January 6, 2024	0	60	56	ND	ND	ND	ND	ND	ND	ND	ND
BS24-197	0	January 6, 2024	0	70	31	ND	ND	ND	ND	ND	ND	ND	ND
BS24-198	0	January 6, 2024	0	74	85	ND	ND	ND	ND	ND	ND	ND	ND
BS24-199	0	January 6, 2024	0	71	37	ND	ND	ND	ND	ND	ND	ND	ND
BS24-200	0	January 7, 2024	0	80	129	ND	ND	ND	ND	ND	ND	ND	ND
BS24-201	0	January 7, 2024	0	90	34	ND	ND	ND	12	ND	12	12	ND
BS24-202	0	January 7, 2024	0	17	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS24-203	0	January 7, 2024	0	42	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS24-204	0	January 7, 2024	0	29	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS24-205	0	January 7, 2024	0	59	27	ND	ND	ND	ND	ND	ND	ND	ND
BS24-206	0	January 7, 2024	0	17	109	ND	ND	ND	ND	ND	ND	ND	ND
BS24-207	0	January 7, 2024	0	23	187	ND	ND	ND	ND	ND	ND	ND	140
BS24-208	0	January 7, 2024	0	32	281	ND	ND	ND	ND	ND	ND	ND	140
BS24-209	0	January 7, 2024	0	38	40	ND	ND	ND	ND	ND	ND	ND	ND
BS24-210	0	January 7, 2024	0	56	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS24-211	0	January 7, 2024	0	26	11	ND	ND	ND	ND	ND	ND	ND	ND
BS24-212	0	January 7, 2024	0	48	226	ND	ND	ND	ND	ND	ND	ND	96
BS24-213	0	January 7, 2024	0	71	203	ND	ND	ND	ND	ND	ND	ND	ND
BS24-214	0	January 7, 2024	0	16	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS24-215	0	January 7, 2024	0	17	82	ND	ND	ND	ND	ND	ND	ND	ND
BS24-216	0	January 7, 2024	0	62	ND	ND	ND	ND	ND	ND	ND	ND	ND



Client Name: Ace Fluid Solutions
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						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS24-217	0	January 7, 2024	0	31	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS24-218	0	January 7, 2024	0	27	228	ND	ND	ND	ND	ND	ND	ND	99
BS24-219	0	January 7, 2024	0	59	30	ND	ND	ND	ND	ND	ND	ND	ND
BS24-220	0	January 7, 2024	0	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS24-221	0	January 7, 2024	0	26	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS24-222	0	January 7, 2024	0	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS24-223	0	January 7, 2024	0	55	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS24-224	0	January 7, 2024	0	29	661	ND	ND	ND	ND	ND	ND	ND	290
BS24-225	0	January 7, 2024	0	91	210	ND	ND	ND	ND	ND	ND	ND	82
BS24-226	0	January 7, 2024	0	50	308	ND	ND	ND	ND	ND	ND	ND	120
BS24-227	0	January 7, 2024	0	49	190	ND	ND	ND	ND	ND	ND	ND	ND
BS24-228	0	January 7, 2024	0	36	96	ND	ND	ND	ND	ND	ND	ND	ND
BS24-229	0	January 7, 2024	0	49	17	ND	ND	ND	ND	ND	ND	ND	ND
BS24-230	0	January 7, 2024	0	54	178	ND	ND	ND	ND	ND	ND	ND	69
BS24-231	0	January 7, 2024	0	51	303	ND	ND	ND	ND	ND	ND	ND	110
BS24-232	0	January 7, 2024	0	30	53	ND	ND	ND	ND	ND	ND	ND	ND
BS24-233	0	January 7, 2024	0	24	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS24-234	0	January 7, 2024	0	62	30	ND	ND	ND	ND	ND	ND	ND	ND
BS24-235	4	January 19, 2024	0	-	1,838	ND	ND	ND	ND	ND	ND	ND	810
BS24-236	4	January 19, 2024	0	-	1,366	ND	ND	ND	ND	ND	ND	ND	430
BS24-237	4	January 19, 2024	0	-	1,759	ND	ND	ND	ND	ND	ND	ND	700
BS24-238	4	January 19, 2024	0	-	4,316	ND	ND	ND	ND	ND	ND	ND	2300
BS24-239	4	January 19, 2024	0	-	2,802	ND	ND	ND	ND	ND	ND	ND	1400

"ND" Not Detected at the Reporting Limit
"-" indicates not analyzed/assessed
Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria



APPENDIX A - NMOCD C-141 Report

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2226241849
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Tap Rock Operating	OGRID	372043
Contact Name	Christian Combs	Contact Telephone	720-360-4028
Contact email	ccombs@taprk.com	Incident #	(assigned by OCD)
Contact mailing address	523 Park Point Dr. #200 Golden CO 80401		

Location of Release Source

Latitude 32.19560 Longitude -103.35750
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Prometheus Frac Line (Nearest Well: Jackson Unit 20H)	Site Type	Production/Completions
Date Release Discovered	09/12/2022	API# (if applicable)	30-025-41139

Unit Letter	Section	Township	Range	County
O	27	24S	35E	LEA

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name:)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 3249 bbls	Volume Recovered (bbls) 240 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release


During Frac, miscommunication among field personnel caused the water transfer line to be pressured up with a valve closed. The result of this cause the line to rupture and spill approximately 3249 bbls in the pasture near the lease road. A vacuum truck was dispatched out but upon arrival some fluid had soaked into the sand, therefore only 240 bbls of fluid was recovered. The water transfer line belongs to ACE Fluids, and will be held responsible for the remediation of the release.

Incident ID	NAPP2226241849
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume of the Release
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email was Sent By Bill Ramsey, to OCD online email, Bratcher, Hamlet, at on 9/13/2022	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Bill Ramsey	Title: Environmental Specialist
Signature: 	Date: 09/19/2022
email: bramsey@taprk.com	Telephone: 720-238-2787
<u>OCD Only</u>	
Received by: Jocelyn Harimon	Date: 09/19/2022

Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15	10	10	0.083	8.3	0.22	Clay
Peat	0.40	10	10	0.083	8.3	0.59	Peat
Glacial Sediments	0.13	10	10	0.083	8.3	0.19	Glacial Sediments
Sandy Clay	0.12	10	10	0.083	8.3	0.18	Sandy Clay
Silt	0.16	10	10	0.083	8.3	0.24	Silt
Loess	0.25	10	10	0.083	8.3	0.37	Loess
Fine Sand	0.16	2525.45	543.53	0.083	113930.6	3249.36	Fine Sand
Medium Sand	0.25	10	10	0.083	8.3	0.37	Medium Sand
Coarse Sand	0.26	10	10	0.083	8.3	0.38	Coarse Sand
Gravelly Sand	0.26	10	10	0.083	8.3	0.38	Gravelly Sand
Fine Gravel	0.26	10	10	0.083	8.3	0.38	Fine Gravel
Medium Gravel	0.20	10	10	0.083	8.3	0.30	Medium Gravel
Coarse Gravel	0.18	10	10	0.083	8.3	0.27	Coarse Gravel
Sandstone	0.25	10	10	0.083	8.3	0.37	Sandstone
Siltstone	0.18	10	10	0.083	8.3	0.27	Siltstone
Shale	0.05	10	10	0.083	8.3	0.07	Shale
Limestone	0.13	10	10	0.083	8.3	0.19	Limestone
Basalt	0.19	10	10	0.083	8.3	0.28	Basalt
Volcanic Tuff	0.20	10	10	0.083	8.3	0.30	Volcanic Tuff
Standing Liquids	X	10	10	0.083	8.3	1.48	Standing Liquids

1	2	3	4	5	6
0.083	0.166	0.250	0.332	0.415	0.500
7	8	9	10	11	12
0.581	0.664	0.750	0.830	0.913	1.000

NOTE: This is an **estimate** tool designed for quick field estimates or whether a C-141 should be required (i.e. a release is estimated to be greater than or less than 5 barrel volumes)

Choose the one prevailing ground type for estimating spill volumes at a single location.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

$$\text{Cubic Feet} = L \times W \times D$$

$$\text{Estimated Barrels} = ((\text{Cubic Feet} \times \text{Porosity}) / 5.61)$$

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 144479

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 144479
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	9/19/2022

APPENDIX B – Closure Criteria Research Documentation

Prometheus Frac Line



6/20/2023, 12:29:51 PM

— Override 1

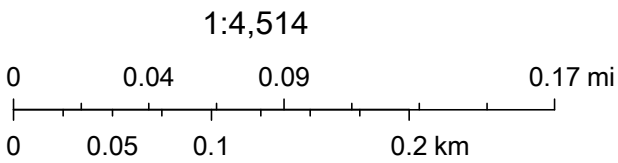
● Pending

□ OSE District Boundary

Water Right Regulations

□ Closure Area

▤ SiteBoundaries



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)
















(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec 21	Tws 24S	Rng 33E	X	Y	Distance	DepthWell	DepthWater	Water Column
C 04708 POD1		CUB	LE	1	3	4	21	24S	33E	634149	3563262	324	100		
C 02890		C	LE	2	4	29	24S	33E	633114	3562012*		1586	500		
C 02430		CUB	LE	3	3	3	16	24S	33E	633377	3564732*	1980	643	415	228
C 02431		CUB	LE	4	4	4	17	24S	33E	633175	3564728*	2083	525	415	110
C 02432		CUB	LE	4	4	4	17	24S	33E	633175	3564728*	2083	640	415	225
C 02563		CUB	LE	1	4	2	33	24S	33E	634639	3560923*	2104	120		
C 02310		CUB	LE	2	4	2	33	24S	33E	634420	3560893	2114	120	70	50
C 02311		CUB	LE	2	3	2	33	24S	33E	634391	3560877	2130	120	70	50
C 02564		CUB	LE	2	4	2	33	24S	33E	634839	3560923*	2140	120		
C 04339 POD1		CUB	LE	1	3	3	23	24S	33E	636525	3563309	2196	47		
C 04339 POD8		CUB	LE	1	1	3	23	24S	33E	636519	3563681	2271	30		
C 04339 POD7		CUB	LE	4	4	2	23	24S	33E	636473	3564011	2348	43		
C 03600 POD4		CUB	LE	3	3	1	26	24S	33E	636617	3562293	2376			
C 04339 POD2		CUB	LE	2	3	3	23	24S	33E	636789	3563315	2458			
C 03600 POD7		CUB	LE	3	1	3	26	24S	33E	636726	3561968	2593			
C 03600 POD1		CUB	LE	2	2	1	26	24S	33E	637275	3563023	2925			
C 04339 POD3		CUB	LE	2	4	3	23	24S	33E	637273	3563323	2940	38		
C 04339 POD4		CUB	LE	2	4	3	23	24S	33E	637273	3563323	2940	47		
C 03603 POD3		CUB	LE	4	1	1	35	24S	33E	636890	3561092	3180			
C 03600 POD6		CUB	LE	3	1	4	26	24S	33E	637383	3562026	3187			
C 04339 POD5		CUB	LE	2	3	4	23	24S	33E	637580	3563328	3245	54		
C 03603 POD5		CUB	LE	3	3	2	35	24S	33E	636745	3560767	3279			
C 04339 POD6		CUB	LE	3	1	2	23	24S	33E	637340	3564386	3293	60		
C 03662 POD1		C	LE	3	1	2	23	24S	33E	637342	3564428	3312	550	110	440
C 04339 POD10		CUB	LE	4	1	4	23	24S	33E	637688	3563503	3374	49		
C 03600 POD3		CUB	LE	3	4	2	26	24S	33E	637784	3562340	3498			
C 03601 POD6		CUB	LE	1	4	4	23	24S	33E	637834	3563338	3499			
C 04339 POD9		CUB	LE	3	4	2	23	24S	33E	637731	3563913	3500	45		
C 03603 POD6		CUB	LE	3	1	3	35	24S	33E	636749	3560447	3508			
C 03601 POD2		CUB	LE	3	2	4	23	24S	33E	637846	3563588	3544			
C 03603 POD2		CUB	LE	3	1	2	35	24S	33E	637384	3561167	3548			
C 03601 POD7		CUB	LE	4	4	4	23	24S	33E	637946	3563170	3599			

C_03600_POD5	CUB	LE	3	2	4	26	24S	33E	637857	3562020		3643			
C_03601_POD5	CUB	LE	2	4	4	23	24S	33E	637988	3563334		3653			
C_03601_POD3	CUB	LE	1	3	3	24	24S	33E	638142	3563413		3813			
C_02312	CUB	LE	1	2	1	05	25S	33E	632292	3559772		3834	150	90	60
C_03565_POD3	CUB	LE		3	4	08	24S	33E	632763	3566546		3878		1533	
C_03601_POD1	CUB	LE	4	4	2	23	24S	33E	638124	3563937		3887			
C_03603_POD1	CUB	LE	3	2	2	35	24S	33E	637805	3561225		3887			
C_03601_POD4	CUB	LE	3	3	3	24	24S	33E	638162	3561375		4146			
C_03603_POD4	CUB	LE	3	2	4	35	24S	33E	637789	3560461		4278			
C_04741_POD1	CUB	LE	1	2	4	10	24S	33E	636076	3567039		4386	55		
C_02308	CUB	LE	1	3	1	10	24S	33E	634953	3567364*		4398	40	20	20
C_03600_POD2	CUB	LE	4	4	1	25	24S	33E	638824	3562329		4525			
C_03602_POD2	CUB	LE	4	4	1	25	24S	33E	638824	3562329		4525			
C_03917_POD1	C	LE	4	1	3	13	24S	33E	638374	3565212		4588	600	420	180
C_04622_POD1	CUB	LE	3	3	4	24	24S	32E	629436	3563006		4913			

Average Depth to Water:	355 feet
Minimum Depth:	20 feet
Maximum Depth:	1533 feet

Record Count: 47

UTMNAD83 Radius Search (in meters):

Easting (X): 634350

Northing (Y): 3563007.31

Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/1/23 5:33 PM


WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04708 POD1	1	3	4	21	24S	33E	634149	3563262 

Driller License: 1453 **Driller Company:** HYDROTECH DRILLING

Driller Name: JOE SKAGGS

Drill Start Date: 03/23/2023 **Drill Finish Date:** 03/27/2023 **Plug Date:**

Log File Date: 06/23/2023 **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 3.00 **Depth Well:** 100 feet **Depth Water:**

Casing Perforations:	Top	Bottom
	80	100

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/1/23 5:35 PM

POINT OF DIVERSION SUMMARY



Souder, Miller & Associates
3500 Sedona Hills Parkway
Las Cruces, NM 88011
Telephone: 575-647-0799
Fax: 575-647-0680

BORING NUMBER BH-1

PAGE 1 OF 3

CLIENT Tap Rock OperatingPROJECT NAME ACE Water WellPROJECT NUMBER 5E31761PROJECT LOCATION Lea County, New MexicoDATE STARTED 3/23/23 COMPLETED 3/23/23GROUND ELEVATION 3538 ft HOLE SIZE 7.25-inchesDRILLING CONTRACTOR Hydro Tech Drilling

GROUND WATER LEVELS:

DRILLING METHOD Air-RotaryAT TIME OF DRILLING --- No ground water present.LOGGED BY SS CHECKED BY HWAT END OF DRILLING --- No ground water present.NOTES Temporary casing was installed after drilling.92hrs AFTER DRILLING --- No ground water present.

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
		SC-SM		(SC-SM) Clayey Sand w/gravel, first appearance of caliche w/ rock chips and dust.	
					3536.0
				(SC-SM) Clayey Sand w/gravel, caliche is still present w/ interbedded sand layer.	
5		SC-SM			
10					3528.0
				(SC-SM) Clayey Sand w/gravel, tan, fine grained, minimum rock chips present.	
15		SC-SM			
20					3518.0
				(SM) Silty Sand, reddish brown very fine grained.	
25		SM			
30					3508.0
				(SM) Silty Sand, reddish brown. (Broke through caliche layer. Borehole advanced quicker.) (Difficult to determine if the sand coming out is from the borehole or if it's sand falling from the surface.) (Driller is struggling to get the drill cuttings up and drill deeper. Driller resorted to using foam to help bring the drill cuttings out of the borehole.)	
35		SM			

(Continued Next Page)



Souder, Miller & Associates
 3500 Sedona Hills Parkway
 Las Cruces, NM 88011
 Telephone: 575-647-0799
 Fax: 575-647-0680

BORING NUMBER BH-1

PAGE 2 OF 3

CLIENT Tap Rock OperatingPROJECT NAME ACE Water WellPROJECT NUMBER 5E31761PROJECT LOCATION Lea County, New Mexico

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
35				
				(SM) Silty Sand, reddish brown. (Broke through caliche layer. Borehole advanced quicker.) (Difficult to determine if the sand coming out is from the borehole or if it's sand falling from the surface.) (Driller is struggling to get the drill cuttings up and drill deeper. Driller resorted to using foam to help bring the drill cuttings out of the borehole.) (continued)
40				
45				
50				
55		SM		
60				
65				
70				
75				

(Continued Next Page)



Souder, Miller & Associates
3500 Sedona Hills Parkway
Las Cruces, NM 88011
Telephone: 575-647-0799
Fax: 575-647-0680

BORING NUMBER BH-1

PAGE 3 OF 3

CLIENT Tap Rock Operating

PROJECT NAME ACE Water Well

PROJECT NUMBER 5E31761

PROJECT LOCATION Lea County, New Mexico

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
75				
80				(SM) Silty Sand, reddish brown. (Broke through caliche layer. Borehole advanced quicker.) (Difficult to determine if the sand coming out is from the borehole or if it's sand falling from the surface.) (Driller is struggling to get the drill cuttings up and drill deeper. Driller resorted to using foam to help bring the drill cuttings out of the borehole.) (<i>continued</i>)
85				
90				
95				
100				
105				

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 742706
File Nbr: C 04708

Feb. 16, 2023

HEATHER WOODS
SOUDER MILLER & ASSOCIATES
401 W BROADWAY
FARMINGTON, NM 87401

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read "Rodolfo Chavez".

Rodolfo Chavez
(575) 622-6521

Enclosure

explore

File No. C-04708 Pod 1

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well (Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input checked="" type="checkbox"/> Other(Describe): Soil Boring
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

<input checked="" type="checkbox"/> Temporary Request - Requested Start Date: 2/13/2023	Requested End Date: 4/13/2023
Plugging Plan of Operations Submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

1. APPLICANT(S)

Name: Tap Rock Operating	Name: Souder Miller & Associates
Contact or Agent: <input type="checkbox"/> check here if Agent Bill Ramsey	Contact or Agent: <input checked="" type="checkbox"/> check here if Agent Heather Woods
Mailing Address: 523 Park Point Drive	Mailing Address: 401 W. Broadway
City: Golden	City: Farmington
State: Colorado Zip Code: 80401	State: NM Zip Code: 87401
Phone: (720) 772-5093 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work):	Phone: 5057162787 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work):
E-mail (optional): BRamsey@taprk.com	E-mail (optional): Heather.Woods@soudermiller.com

FILED FEB 8 2023 AM 11:03

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 11/17/16

File No.: C-04708	Trn. No.: 742706	Receipt No.: 2-45455
Trans Description (optional):		
Sub-Basin: CWB	PCW/LOG Due Date: 2/16/24	

Page 1 of 3

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84). District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.			
<input type="checkbox"/> NM State Plane (NAD83) (Feet) <input type="checkbox"/> UTM (NAD83) (Meters) <input checked="" type="checkbox"/> Lat/Long (WGS84) (to the nearest 1/10 th of second)			
<input type="checkbox"/> NM West Zone <input type="checkbox"/> Zone 12N <input type="checkbox"/> NM East Zone <input type="checkbox"/> Zone 13N <input type="checkbox"/> NM Central Zone			
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
C-04708 POD1	32.19793	-103.57676	SE 1/4 of S21 T24S R33E NMPM
NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions) Additional well descriptions are attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how many _____			
Other description relating well to common landmarks, streets, or other:			
Well is on land owned by: New Mexico State Land Office			
Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how many _____			
Approximate depth of well (feet): 100'		Outside diameter of well casing (inches) 8"	
Driller Name: Roy Taylor		Driller License Number: WD-1626	

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

One boring is being drilled to determine depth to ground water. Total depth will be determined during drilling.
<div style="text-align: right;"> OSE ON FEB 8 2023 AM 11:03 </div>

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-04708

Trn No.: 742706

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory: <input type="checkbox"/> Include a description of any proposed pump test, if applicable.	Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge <input type="checkbox"/> The method of measurement of water produced and discharged.	Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.	Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s) <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted.
Monitoring: <input type="checkbox"/> Include the reason for the monitoring well, and, <input type="checkbox"/> The duration of the planned monitoring.	<input type="checkbox"/> The source of water to be injected <input type="checkbox"/> The method of measurement of water injected <input type="checkbox"/> The characteristics of the aquifer <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	<input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Heather Woods (agent) + Bill Ramsey
 Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

William Ramsey
 Applicant Signature

Heather M. Woods
 Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval

Witness my hand and seal this 16th day of February 20 23, for the State Engineer

Mike A. Hamman, P.E.

State Engineer

By: K. Parikh
 Signature

Kashyap Parikh
 Print

Title: Water Resource Manager I
 Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No: C-04708

Tm No: 742706

Page 3 of 3

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04708 POD1

File Number: C 04708

Trn Number: 742706

page: 1

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: C 04708 POD1

File Number: C 04708

Trn Number: 742706

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04708 POD1 must be completed and the Well Log filed on or before 02/16/2024.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 02/08/2023	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 16 day of Feb A.D., 2023

Mike A. Hamman, P.E., State Engineer

By:

K. Parekh
KASHYAP PAREKH

Trn Desc: C 04708 POD1

File Number: C 04708

Trn Number: 742706

Heather Woods

From: Gallegos, David <dgallegos@slo.state.nm.us>
Sent: Monday, January 23, 2023 12:02 PM
To: Bill Ramsey
Cc: McMillan, Michael A.; Crosby, Faith
Subject: [EXTERNAL] RE: Tap Rock: Water Well Proposal
Attachments: image003.png; PROMETHEUS_STATE_COM_WATER_WELL.kmz;
 LO_PROMETHEUS_STATE_COM_WATER_WELL_S - Signed.pdf

[EXTERNAL] This email originated from outside your organization. Do not trust links or attachments.

Hello Mr. Ramsey,

The depth to ground water is a lease right under LG-4137 and as Tap Rock is the operator. No additional permit is needed thru NMSLO.

Please let me know how I can help if you have any questions.

Thanks,

<http://www.nmstatelands.org/> style='position:absolute;margin-left:158.8pt;margin-top:1.5pt;width:85.85pt;height:85.1pt;z-index: 251656192;visibility:visible;mso-wrap-style:square;mso-width-percent:0;mso-height-percent:0;mso-wrap-distance-left:9pt;mso-wrap-distance-top:0;mso-wrap-distance-right:9pt;mso-wrap-distance-bottom:0;mso-position-horizontal:absolute;mso-position-horizontal-relative:text;mso-position-vertical:absolute;mso-position-vertical-relative:text;mso-width-percent:0;mso-height-percent:0;mso-width-relative:page;mso-height-relative:page' o:button="t"> **David A. Gallegos**

Water Resource Analyst
Oil, Gas and Minerals Division
 505.476.0378
 New Mexico State Land Office
 310 Old Santa Fe Trail
 P.O. Box 1148
 Santa Fe, NM 87504-1148
dgallegos@slo.state.nm.us
nmstatelands.org



USE DTI FEB 8 2023 AM 11:00

.....
CONFIDENTIALITY NOTICE - This e-mail transmission, including all documents, files, or previous e-mail messages attached hereto, may contain confidential and/or legally privileged information. If you are not the intended recipient, or a person responsible for delivering it to the intended recipient, you are hereby notified that you must not read this transmission and that any disclosure, copying, printing, distribution, or use of any of the information contained in and/or attached to this transmission is **STRICTLY PROHIBITED**. If you have received this transmission in error, please immediately notify the sender and delete the original transmission and its attachments without reading or saving in any manner. Thank you.

From: Bill Ramsey [<mailto:Bramsey@taprk.com>]
Sent: Monday, January 23, 2023 9:52 AM

To: McMillan, Michael A. <mmcmillan@slo.state.nm.us>

Subject: [EXTERNAL] Tap Rock: Water Well Proposal

Mr. McMillan,

Hope you are doing well. My name is Bill Ramsey and I am an environmental specialist for Tap Rock Operating. I am reaching out regarding a temporary water well request by the NMOCD at the proposed location below:

Lat: 32.1979385

Long: -103.5767613

QtrQtr/Section/Township/Range: SWSE, 21, 24S, 33E

The request comes from the NMOCD as part of a required remediation plan for a spill caused by one of Tap Rock's third party companies. As this was an issue caused by a third party they will be responsible for drilling the temporary water well to determine ground water depth. Souder Miller & Associates (SMA) is the third party remediation company (hired by the third party company whom caused the spill) who will be obtaining a water well permit and drilling the test well. They have recently reached out and requested a Right of Entry Permit from us.

As Tap Rock is ultimately held responsible in the eyes of the state for the release we wanted to reach out and ensure we do not need any additional rights of entry or right of way permits to have SMA drill the well. Tap Rock is the SLO's record title owner of the oil and gas lease underlying the well location (LG-4137). Ideally we would like to help SMA get everything they need to get this well drilled as fast as possible but did not want to cause a trespass issue.

Any help you could give on the issue would be greatly appreciated. Please feel free to give me a call if you have any questions or need clarification on anything.

Thank you,

Bill Ramsey
Environmental Specialist
Cell: (720) 238-2787



USE ON FEB 8 2023 04:11:04

District I
1625 N French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

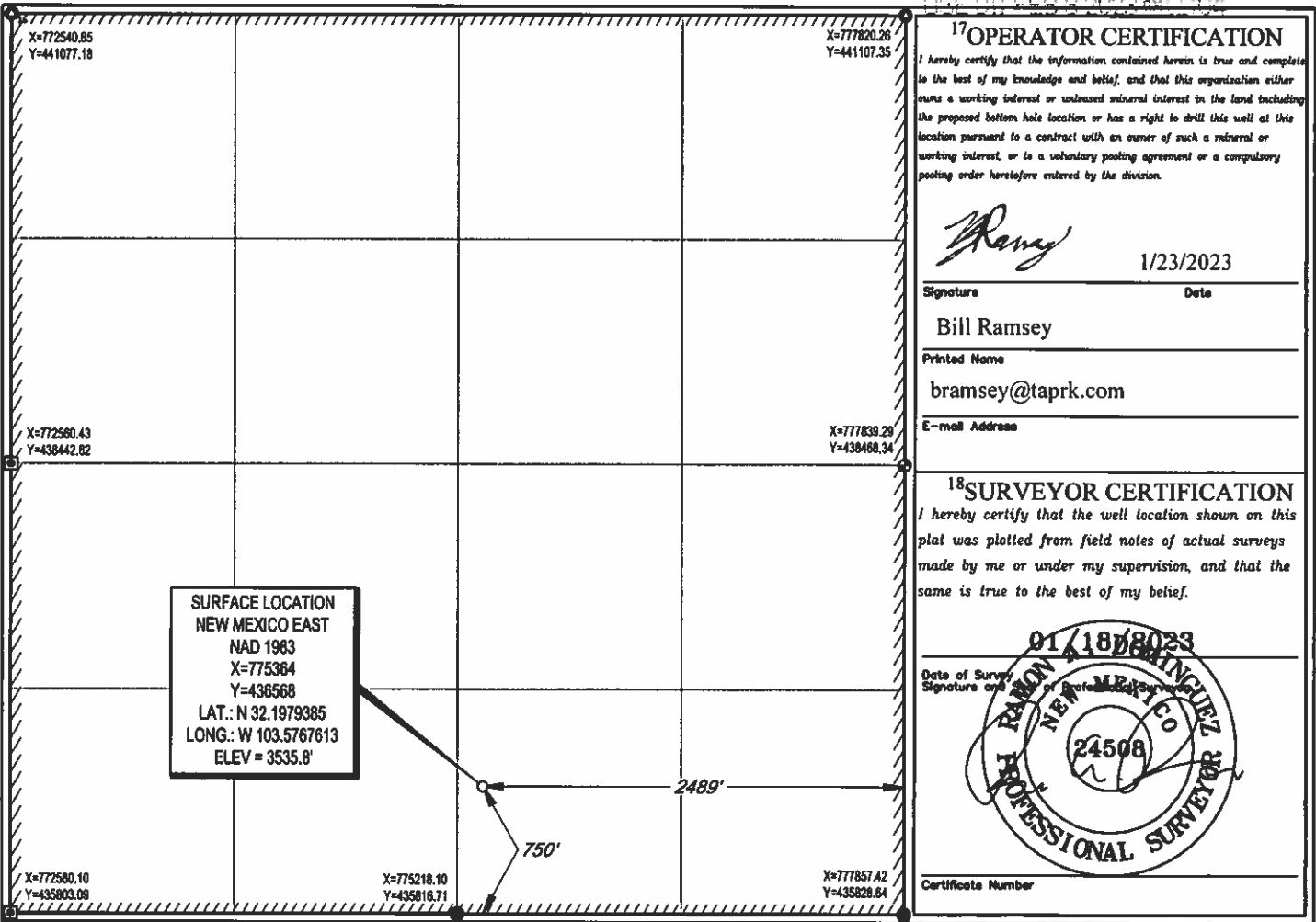
State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

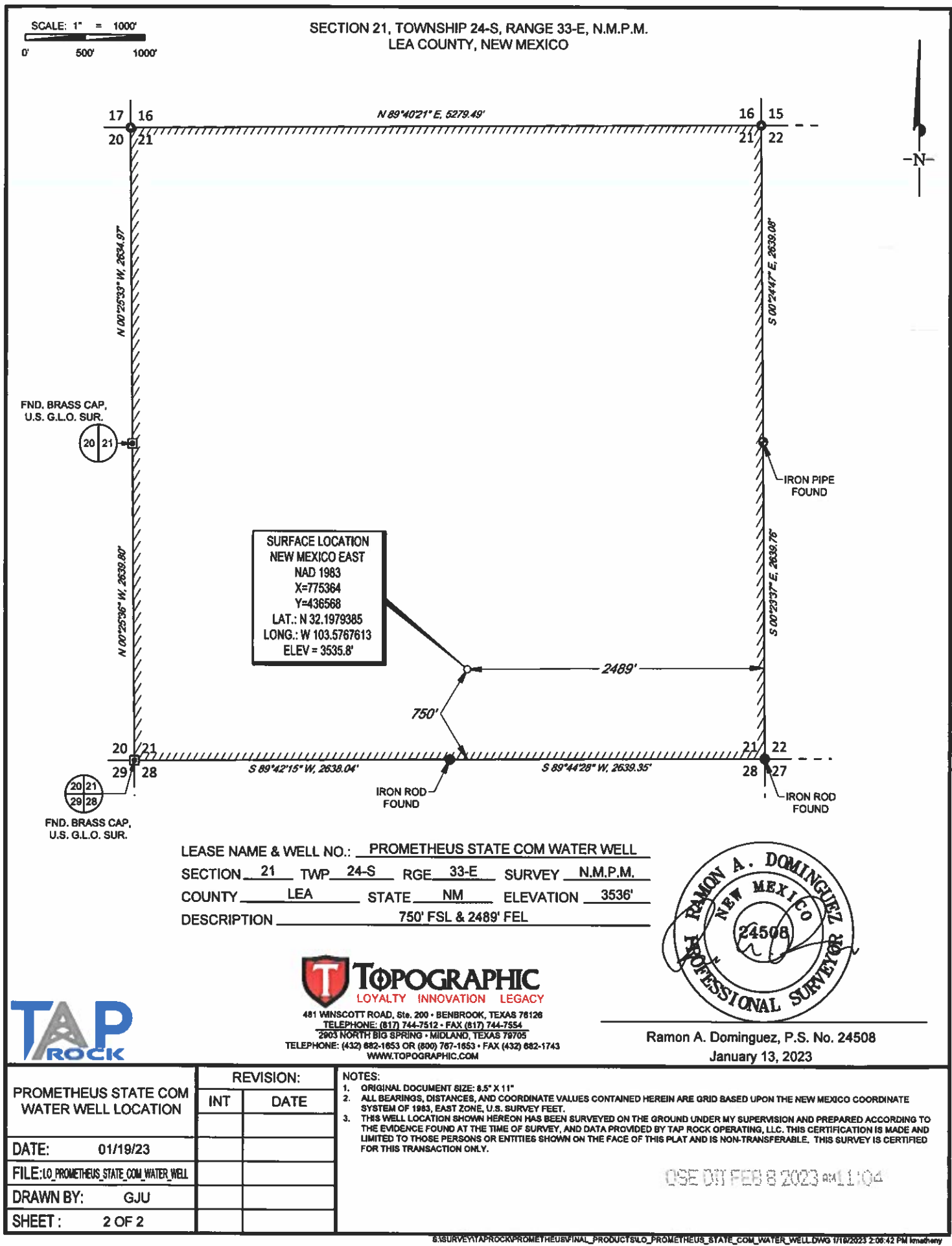
FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

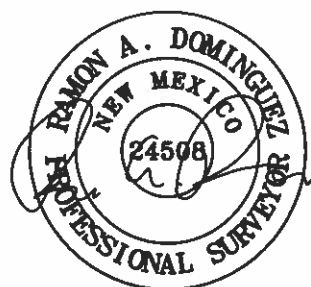
1 API Number		2 Pool Code		3 Pool Name					
4 Property Code		5 Property Name PROMETHEUS STATE COM WATER WELL						6 Well Number -	
7 OGRID No. #372043		8 Operator Name TAP ROCK OPERATING, LLC.						9 Elevation 3536'	
10 Surface Location									
UL or lot no. 0	Section 21	Township 24-S	Range 33-E	Lot Idn -	Feet from the 750'	North/South line SOUTH	Feet from the 2489'	East/West line EAST	County LEA
11 Bottom Hole Location If Different From Surface									
UL or lot no. -	Section -	Township -	Range -	Lot Idn -	Feet from the -	North/South line -	Feet from the -	East/West line -	County -
12 Dedicated Acres		13 Joint or Infill		14 Consolidation Code		15 Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





LEASE NAME & WELL NO.: PROMETHEUS STATE COM WATER WELL
SECTION 21 TWP 24-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3536'
DESCRIPTION 750' FSL & 2489' FEL



Ramon A. Dominguez, P.S. No. 24508
January 13, 2023



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2003 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

PROMETHEUS STATE COM WATER WELL LOCATION	REVISION:	
	INT	DATE
DATE: 01/19/23		
FILE: I:\PROMETHEUS STATE COM WATER WELL		
DRAWN BY: GJU		
SHEET: 2 OF 2		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, I.L.C. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

USE ON FEB 8 2023 AM 11:04



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

February 16, 2023

Tap Rock Operating
523 Park Point Drive
Golden, CO 80401

RE: Well Plugging Plan of Operations for well No. C-4708-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,



Kashyap Parekh
Water Resources Manager I



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623- 8559

Applicant has identified a well, listed below, to be plugged. Roy Taylor (WD-1626) will perform the plugging.

Permittee: Tap Rock Operating
NMOSE Permit Number: C-4708-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4708-POD1	8.0	100.0	Unknown	32° 11' 52.5474"	103° 34' 36.3354"

Specific Plugging Conditions of Approval for Well located in Lea County.

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
2. Theoretical volume of sealant required for abandonment of the 8.0 inch diameter (I.D.) casing is approximately 261.0 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 100.0 feet below ground surface (b.g.s.).
3. The cement-bentonite slurry (bentonite powder) shall be mixed using a maximum of 5.2 gallons water per 94-lb sack of Type I/II Portland cement PLUS 0.65 gallons per 1% increase in bentonite up to a maximum 6% bentonite by dry weight ratio.
4. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.
5. Placement of the sealant within the wells shall be by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column.

6. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. of these Specific Conditions of Approval.
7. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
8. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
9. NMOSE witnessing of the plugging of the non-artesian well will not be required.
10. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
11. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.
12. The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 16th day of February 2023

Mike A. Hamman, P.E. State Engineer

By: K. Parekh

Kashyap Parekh
Water Resources Manager I





WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☐ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: C-6708-POD1

Name of well owner: Tap Rock Operating

Mailing address: 523 Park Point Drive

County: _____

City: Golden

State: _____

Colorado

Zip code: 80401

Phone number: (720) 772-5093

E-mail: BRamsey@taprk.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Roy Taylor

New Mexico Well Driller License No.: WD-1626

Expiration Date: 04/17/2023

IV. WELL INFORMATION: ☒ Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 11 min, 52.5474 sec
Longitude: -103 deg, 34 min, 36.3354 sec, NAD 83

2) Reason(s) for plugging well(s):

Soil boring to determine depth to ground water

3) Was well used for any type of monitoring program? N/A If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? N/A If yes, provide additional detail, including analytical results and/or laboratory report(s): _____

5) Static water level: N/A feet below land surface / feet above land surface (circle one)

6) Depth of the well: 100 feet

- 7) Inside diameter of innermost casing: N/A inches.
- 8) Casing material: N/A
- 9) The well was constructed with:
☐ an open-hole production interval, state the open interval: _____
☐ a well screen or perforated pipe, state the screened interval(s): _____
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? N/A
- 11) Was the well built with surface casing? N/A If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? _____ If yes, please describe:

- 12) Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: ☐ If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:
 Pressure grout with bentonite cement slurry using a tremmie pipe from bottom of hole to surface
- 2) Will well head be cut-off below land surface after plugging? N/A

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 261 gallons
- 4) Type of Cement proposed: Type I/II Portland cement
- 5) Proposed cement grout mix: 5.5 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____ batch-mixed and delivered to the site
x mixed on site

05E 07 FEB 8 2023 AM 11:01

7) Grout additives requested, and percent by dry weight relative to cement:

6% bentonite

8) Additional notes and calculations:

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

VIII. SIGNATURE:

I, Heather Woods (Agent), say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Heather M. Woods (Agent)

Signature of Applicant

2/6/23

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

☒ Approved subject to the attached conditions.
☐ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 16th day of February, 2023



Mike A. Hamman P.E., New Mexico State Engineer

By: K. Parekh

KASHYAP PAREKH

W.R.M.I

WD-08 Well Plugging Plan
Version March 07, 2022
Page 3 of 5

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			
Bottom of proposed interval of grout placement (ft bgl)			
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch-mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

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TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

OSC OUT FEB 8 2023 AM 11:01



Prometheus Watercourse 2,441 ft



June 30, 2023

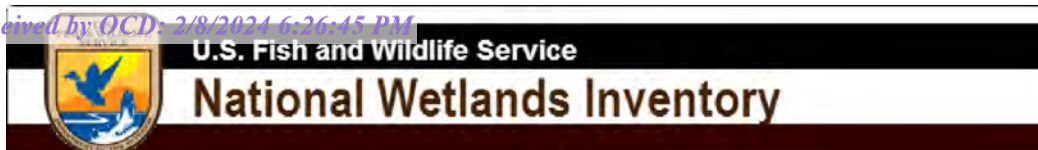
Wetlands_Alaska

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Prometheus Frac Line



June 12, 2023

Wetlands_Alaska

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond


- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Prometheus Frac Line

Nearest Residence: 1.37 miles (7,211 feet)

Legend

 Feature 1



Prometheus Frac Line

Residence

Prometheus Frac Line



6/13/2023, 12:22:36 PM

- Override 1

OSE District Boundary

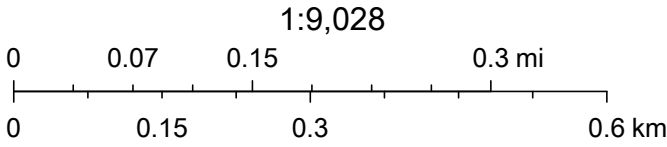
NHD Flowlines
- GIS WATERS PODs

Water Right Regulations

Stream River
- Pending

Closure Area

SiteBoundaries




Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



Released to Imaging: 3/1/2024 7:19:02 AM

Nearest Town: Jal, New Mexico
Distance: 23.39 miles (123,520 feet)

 Feature 1

Prometheus Frac Line

128

128

128

18

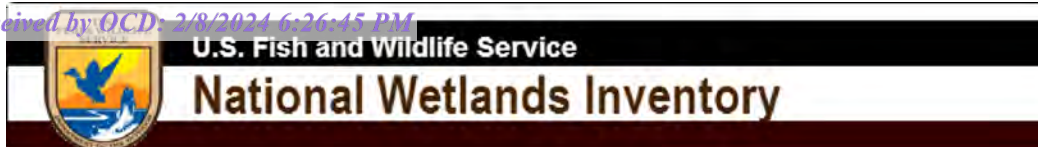
205

Jal

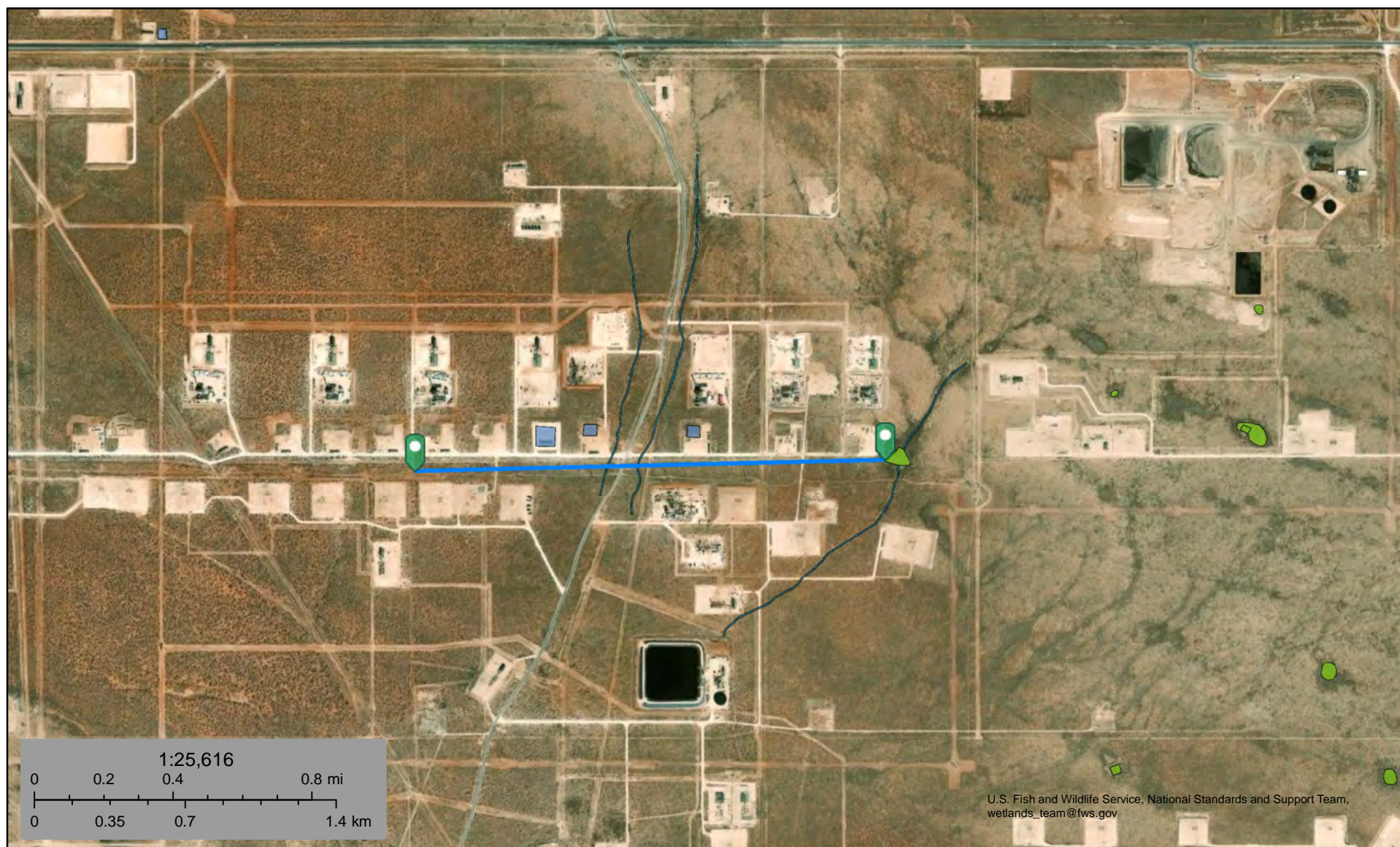
Bennett



8 mi



Prometheus Wetland 6,069 ft



October 1, 2023

Wetlands

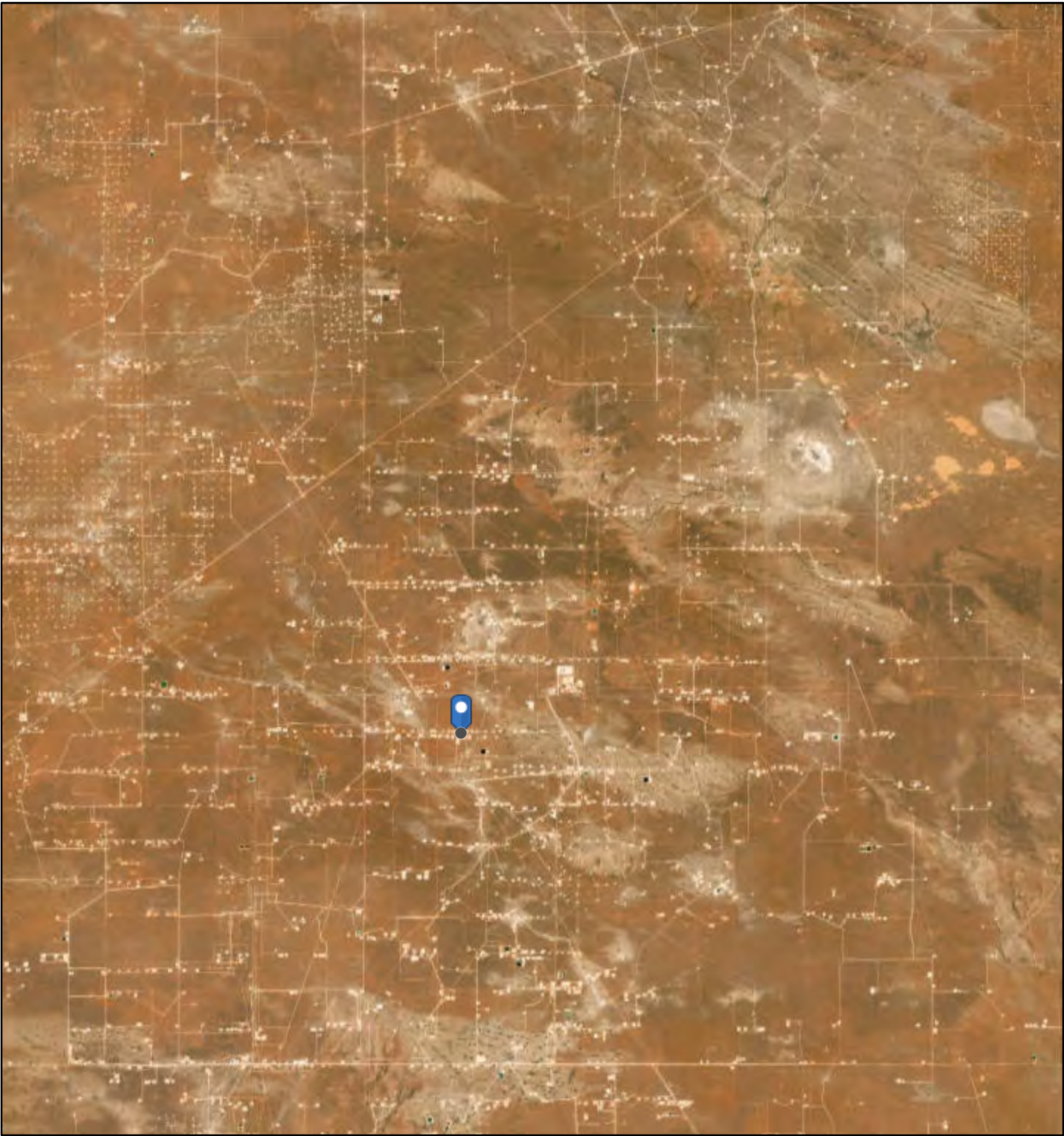
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

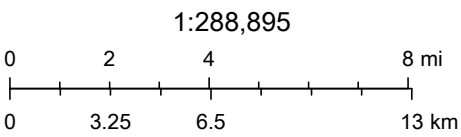
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Prometheus Frac Line

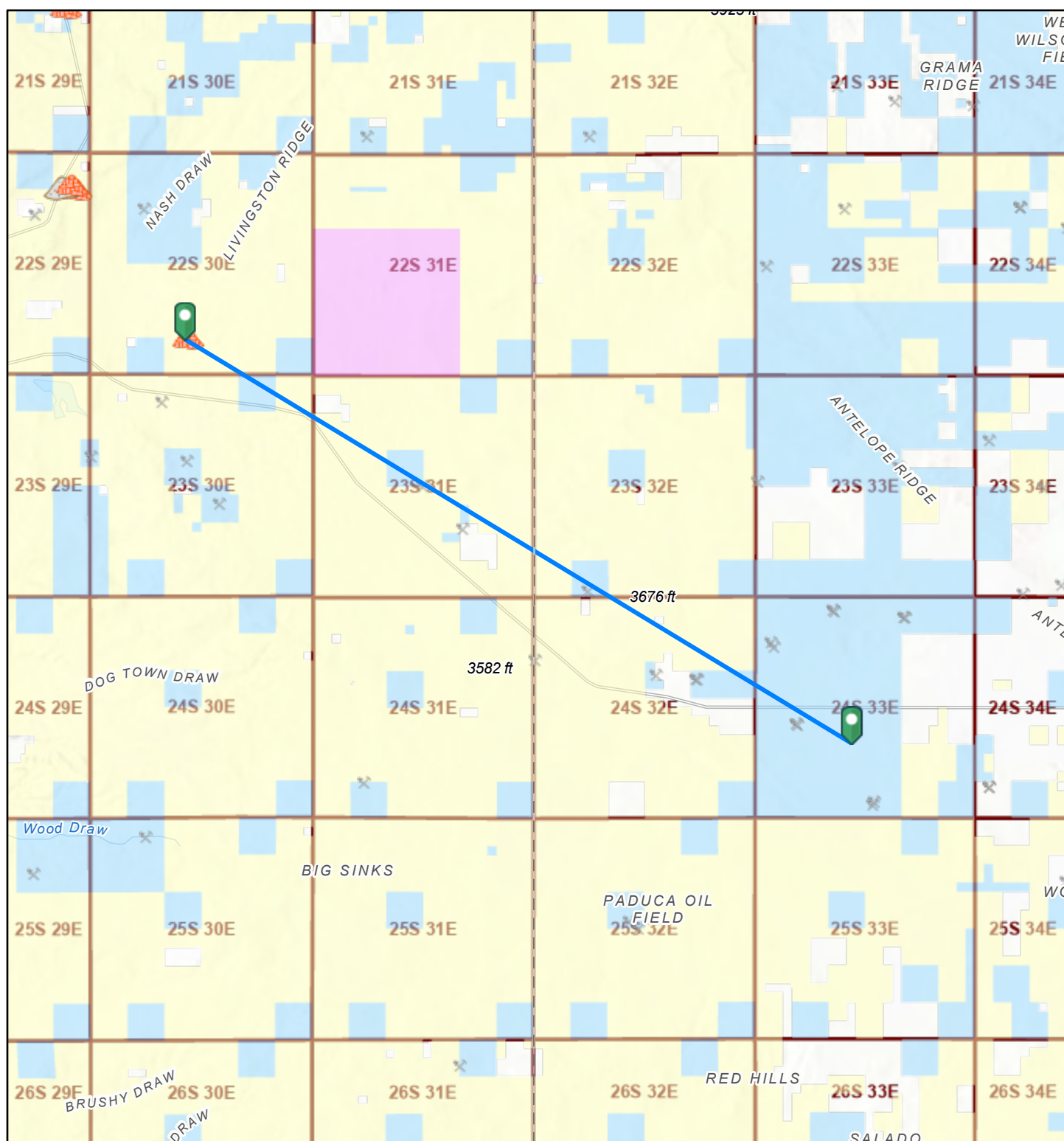


6/13/2023, 12:25:41 PM



Earthstar Geographics, NM Coal Mine Reclamation Program, NM EMNRD

Prometheus Mine 112,033ft



1/5/2024, 2:39:48 PM

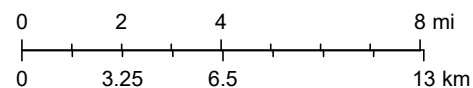
1:288,895

Registered Mines

Land Ownership

- Aggregate, Stone etc.
- Aggregate, Stone etc.
- Aggregate, Stone etc.
- Potash
- Salt

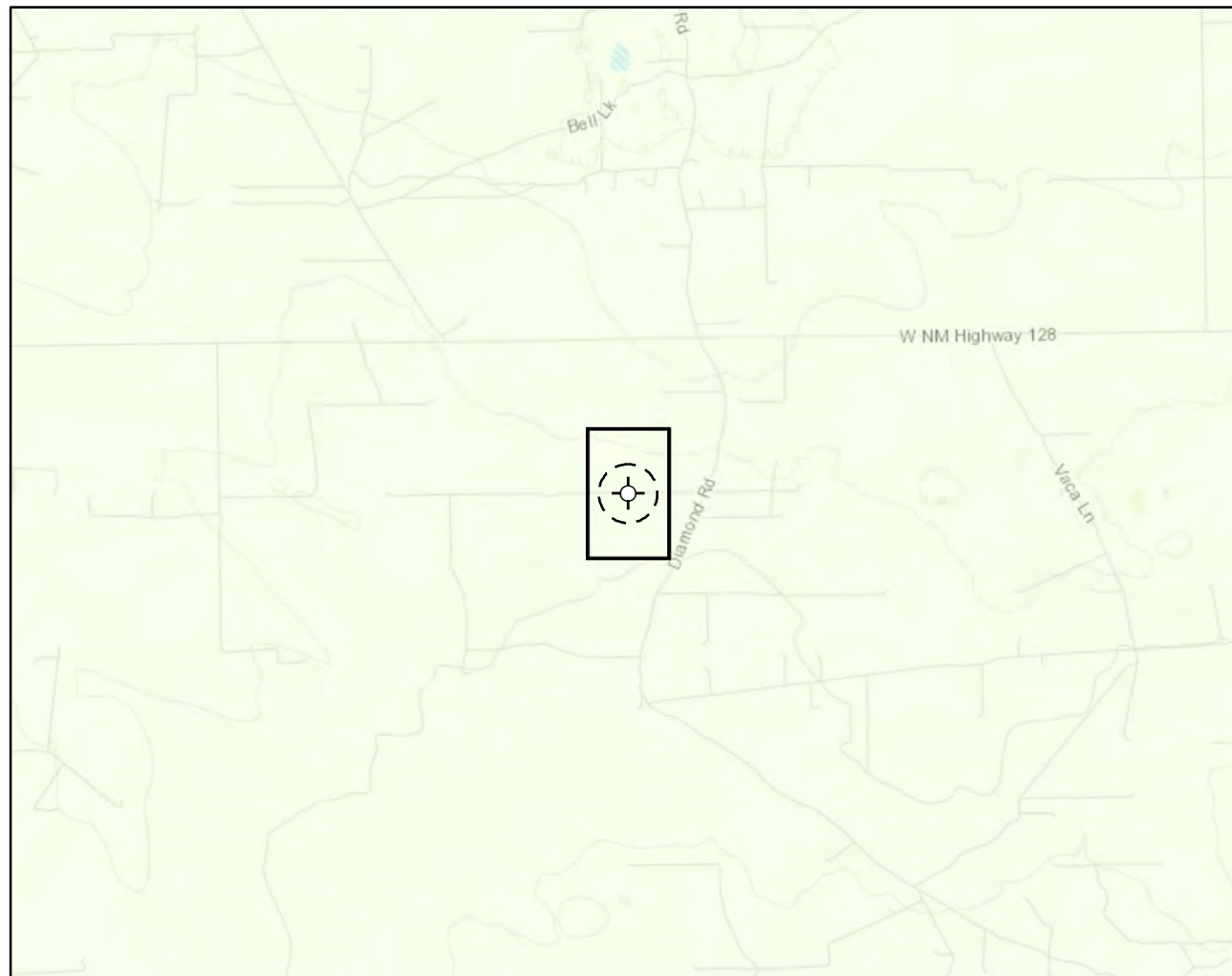
- BLM
- DOE
- P
- S
- PLSS Townships



Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, METI/ NASA, USGS, EPA, NPS, USDA, USFWS, U.S. BLM, Esri, NASA, NGA, USGS, BLM

EMNRD MMD GIS Coordinator

Document Path: G:\Projects\US PROJECTS\COMMERCIAL\Ace Fluid Solutions\23E-03329 (Prometheus)\Figure X Karst Potential Schematic (23E-03329).mxd



Karst Potential

- Critical
- High
- Medium
- Low

- Site Location
- Site Buffer (1,000 sq.ft.)

Overview Map

0 0.25 0.5 1 mi



Detail Map

0 150 300 600 ft.



Map Center:
Lat/Long: 32.196000, -103.574664

NAD 1983 UTM Zone 13N
Date: Jun 13/23



**Karst Potential Schematic
Prometheus Frac Line**

FIGURE:

X



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.




Note: Inset Map, ESRI 2023; Overview Map: ESRI World Topographic. Karst potential data sourced from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management. (2018). Karst Potential.

VERSATILITY. EXPERTISE.

Prometheus

59,230 feet to High Karst

Legend

-  59,230 ft (11.2 miles)
-  High Karst
-  Prometheus Frac Line

Prometheus Frac Line






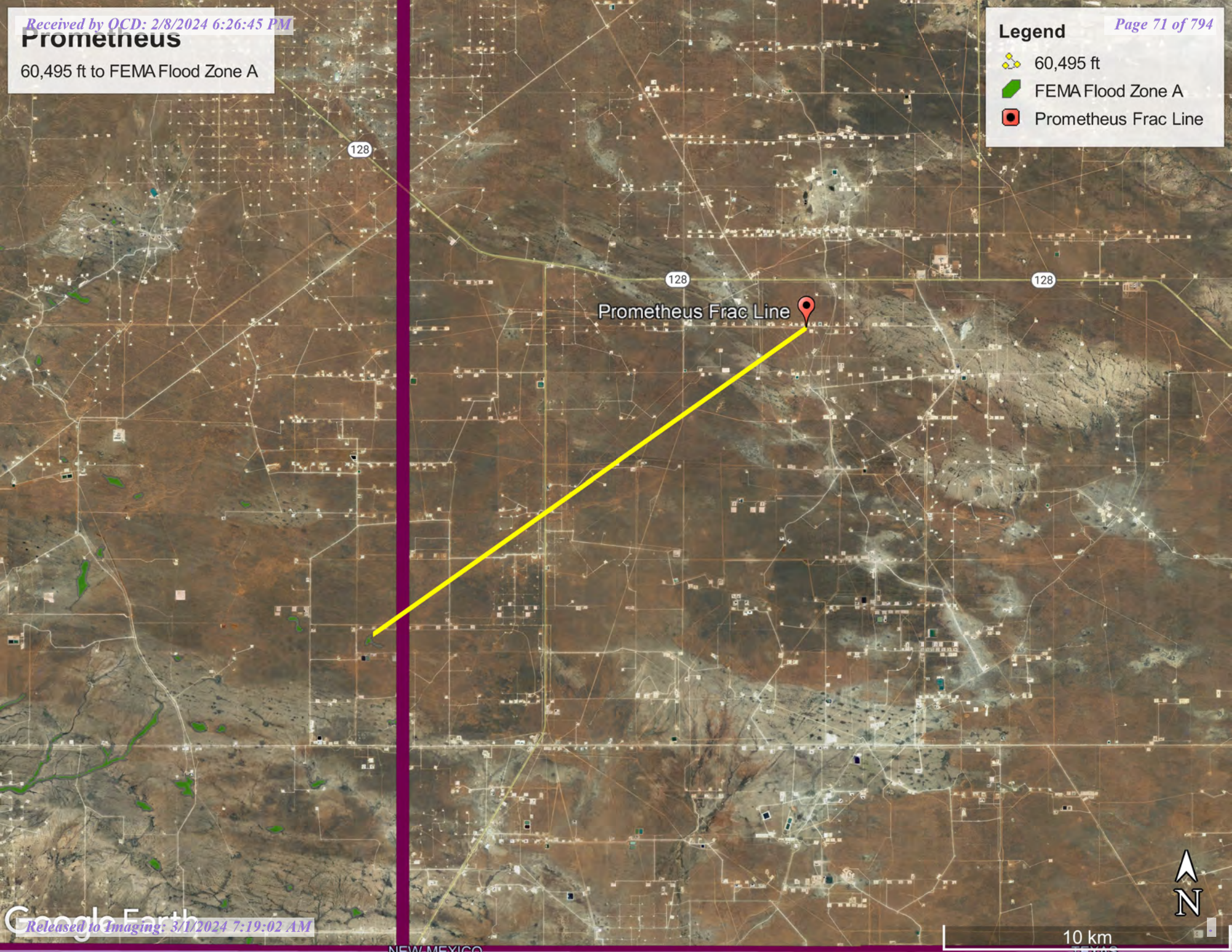
10 km

Prometheus

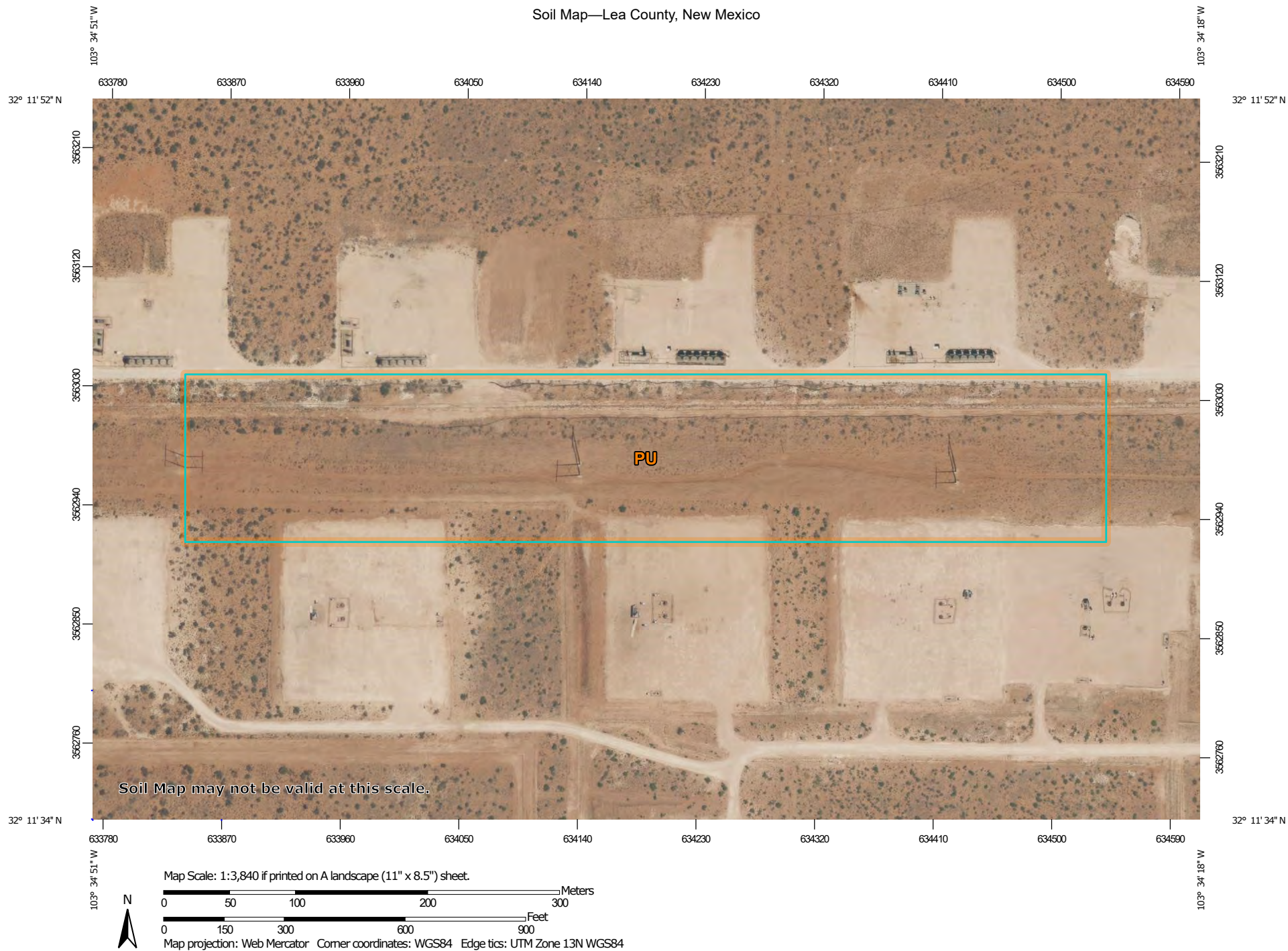
60,495 ft to FEMA Flood Zone A

Legend

-  60,495 ft
-  FEMA Flood Zone A
-  Prometheus Frac Line



Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

6/12/2023
Page 1 of 3

Soil Map—Lea County, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PU	Pyote and Maljamar fine sands	22.0	100.0%
Totals for Area of Interest		22.0	100.0%

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent

Maljamar and similar soils: 44 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022



Ecological site R070BD003NM
Loamy Sand

Accessed: 06/12/2023

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Associated sites

R070BD004NM	Sandy Sandy
R070BD005NM	Deep Sand Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site is on uplands, plains, dunes, fan piedmonts and in inter dunal areas. The parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock. Slope range on this site range from 0 to 9 percent with the average of 5 percent.

Low stabilized dunes may occur occasionally on this site. Elevations range from 2,800 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Fan piedmont (2) Alluvial fan (3) Dune
Elevation	2,800–5,000 ft
Slope	0–9%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity-short duration thunderstorms. Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes.

The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

Climate data was obtained from <http://www.wrcc.sage.dri.edu/summary/climsmnm.html> web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are moderately deep or very deep. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand or gravelly sandy loam.

Subsurface is a loamy fine sand, coarse sandy loam, fine sandy loam or loam that averages less than 18 percent clay and less than 15 percent carbonates.

Substratum is a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

These soils, if unprotected by plant cover and organic residue, become wind blown and low hummocks are formed.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils are:

- Maljamar
- Berino
- Parjarito
- Palomas
- Wink
- Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand (2) Fine sandy loam (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid

Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

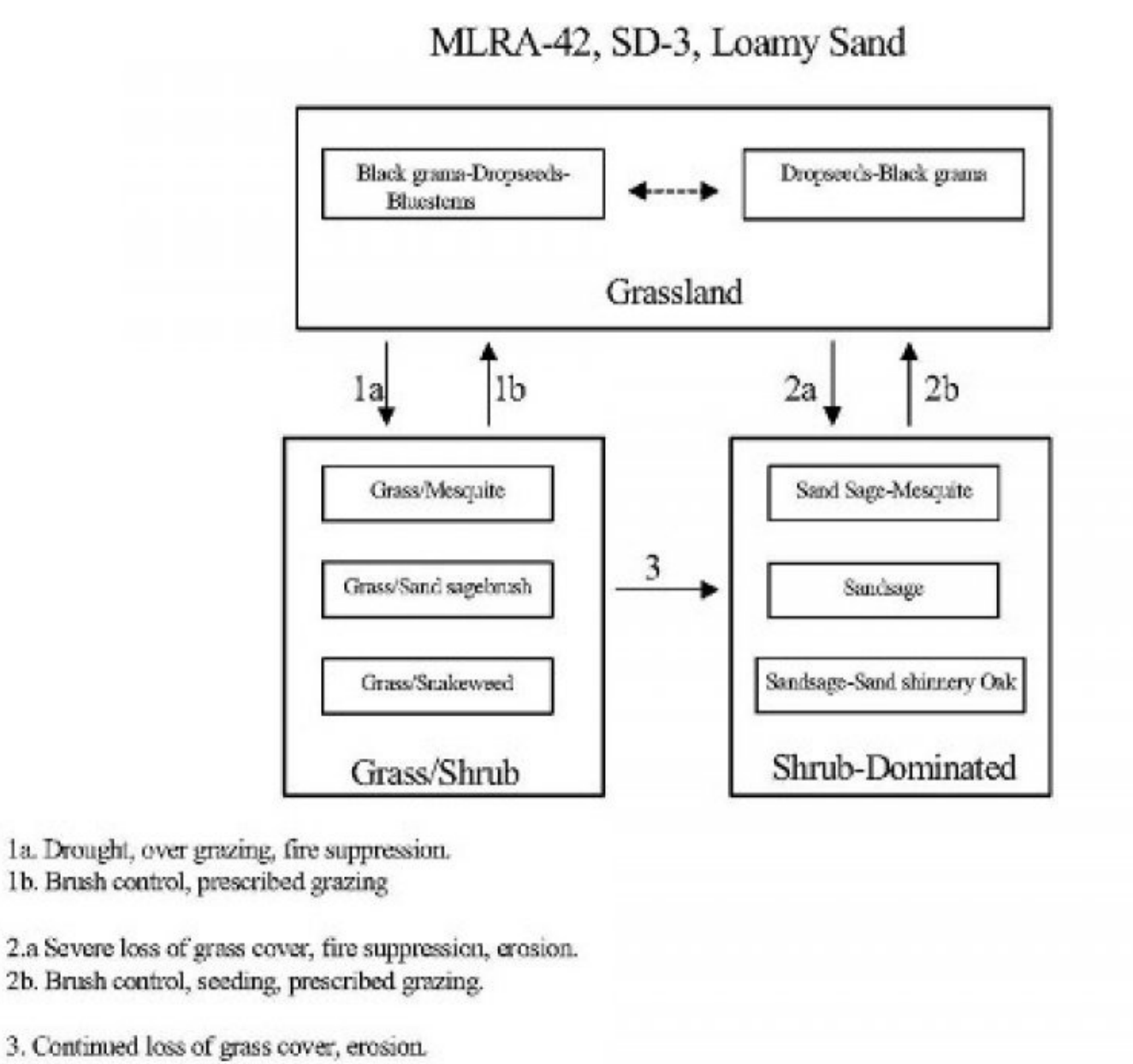
Overview

The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

The historic plant community of Loamy Sand sites is dominated by black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), with scattered shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*). Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and to a lesser extent, bare ground, are a significant proportion of ground cover while grasses compose the remainder. Decreases in black grama indicate a transition to either a grass/shrub or shrub-dominated state. The grass/shrub state is composed of grasses/honey mesquite (*Prosopis glandulosa*), grasses/broom snakeweed (*Gutierrezia sarothrae*), or grasses/sand sage. The shrub-dominated state occurs after a severe loss of grass cover and a prevalence of sand sage with secondary shinnery oak and mesquite. Heavy grazing intensity and/or drought are influential drivers in decreasing black grama and bluestems and subsequently increasing shrub cover, erosion, and bare patches. Historical fire suppression also encourages shrub pervasiveness and a competitive advantage over grass species (McPherson 1995). Brush and grazing management, however, may reverse grass/shrub and shrub-dominated states toward the grassland-dominated historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram):



State 1
Historic Climax Plant Community

Community 1.1
Historic Climax Plant Community

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil

surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species. Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	442	833	1224
Forb	110	208	306
Shrub/Vine	98	184	270
Total	650	1225	1800

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	28%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	50%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	22%

Figure 5. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

State 2
Grass/Shrub

Community 2.1
Grass/Shrub



Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971). **Diagnosis:** This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution. **Transition to Grass/Shrub State (1a):** The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984). **Key indicators of approach to transition:** • Loss of black grama cover • Surface soil erosion • Bare patch expansion • Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances **Transition to Historic Plant Community (1b):** Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an

aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/dropseed/threawn and mesquite/snakeweed abundance

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1	Warm Season			61–123	
	little bluestem	SCSC	<i>Schizachyrium scoparium</i>	61–123	–
2	Warm Season			37–61	
	sand bluestem	ANHA	<i>Andropogon hallii</i>	37–61	–
3	Warm Season			37–61	
	cane bluestem	BOBA3	<i>Bothriochloa barbinodis</i>	37–61	–
	silver bluestem	BOSA	<i>Bothriochloa saccharoides</i>	37–61	–
4	Warm Season			123–184	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	123–184	–
	bush muhly	MUPO2	<i>Muhlenbergia porteri</i>	123–184	–
5	Warm Season			123–184	
	thin paspalum	PASE5	<i>Paspalum setaceum</i>	123–184	–
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	123–184	–
	fringed signalgrass	URCI	<i>Urochloa ciliatissima</i>	123–184	–
6	Warm Season			123–184	
	spike dropseed	SPCO4	<i>Sporobolus contractus</i>	123–184	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	123–184	–
	mesa dropseed	SPFL2	<i>Sporobolus flexuosus</i>	123–184	–
7	Warm Season			61–123	
	hooded windmill grass	CHCU2	<i>Chloris cucullata</i>	61–123	–
	Arizona cottontop	DICA8	<i>Digitaria californica</i>	61–123	–
9	Other Perennial Grasses			37–61	
	Grass, perennial	2GP	<i>Grass, perennial</i>	37–61	–
Shrub/Vine					
8	Warm Season			37–61	
	New Mexico feathergrass	HENE5	<i>Hesperostipa neomexicana</i>	37–61	–
	giant dropseed	SPGI	<i>Sporobolus giganteus</i>	37–61	–
10	Shrub			61–123	

	sand sagebrush	ARFI2	<i>Artemisia filifolia</i>	61–123	–
	Havard oak	QUHA3	<i>Quercus havardii</i>	61–123	–
11	Shrub			34–61	
	fourwing saltbush	ATCA2	<i>Atriplex canescens</i>	37–61	–
	featherplume	DAFO	<i>Dalea formosa</i>	37–61	–
12	Shrub			37–61	
	jointfir	EPHED	<i>Ephedra</i>	37–61	–
	littleleaf ratany	KRER	<i>Krameria erecta</i>	37–61	–
13	Other Shrubs			37–61	
	Shrub (>.5m)	2SHRUB	<i>Shrub (>.5m)</i>	37–61	–
Forb					
14	Forb			61–123	
	leatherweed	CRPOP	<i>Croton pottsii</i> var. <i>pottsii</i>	61–123	–
	Indian blanket	GAPU	<i>Gaillardia pulchella</i>	61–123	–
	globemallow	SPHAE	<i>Sphaeralcea</i>	61–123	–
15	Forb			12–37	
	woolly groundsel	PACA15	<i>Packera cana</i>	12–37	–
16	Forb			61–123	
	touristplant	DIWI2	<i>Dimorphocarpa wislizeni</i>	61–123	–
	woolly plantain	PLPA2	<i>Plantago patagonica</i>	61–123	–
17	Other Forbs			37–61	
	Forb (herbaceous, not grass nor grass-like)	2FORB	<i>Forb (herbaceous, not grass nor grass-like)</i>	37–61	–

Animal community

This Ecological Site provides habitat which supports a resident animal community that is characterized by pronghorn antelope, desert cottontail, spotted ground squirrel, black-tailed prairie dog, yellow faced pocket gopher, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, roadrunner, meadowlark, burrowing owl, white necked raven, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake, dusty hognose snake and ornate box turtle.

Where mesquite has invaded, most resident birds and scissor-tailed flycatcher, morning dove and Swainson's hawk, nest. Vesper and grasshopper sparrows utilize the site during migration.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations

Soil Series Hydrologic Group

Berino B

Kinco A

Maljamar B

Pajarito B

Palomas B

Wink B

Pyote A

Recreational uses

This site offers recreation potential for hiking, borseback riding, nature observation, photography and hunting. During years of abundant spring moisture, this site displays a colorful array of wildflowers during May and June.

Wood products

This site has no potential for wood products.

Other products

This site is suitable for grazing by all kinds and classes of livestock at any time of year. In cases where this site has been invaded by brush species it is especially suited for goats. Mismanagement of this site will cause a decrease in species such as the bluestems, black grama, bush muhly, plains bristlegrass, New Mexico feathergrass, Arizona cottontop and fourwing saltbush. A corresponding increase in the dropseeds, windmill grass, fall witchgrass, silver bluestem, sand sagebrush, shinery oak and ephedra will occur. This will also cause an increase in bare ground which will increase soil erodibility. This site will respond well to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM

100 - 76 2.3 – 3.5

75 – 51 3.0 – 4.5

50 – 26 4.6 – 9.0

25 – 0 9.1 +

Inventory data references

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Other references

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Contributors

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Quinn Hodgson

Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

1. Number and extent of rills:

2. Presence of water flow patterns:

3. Number and height of erosional pedestals or terracettes:

4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):

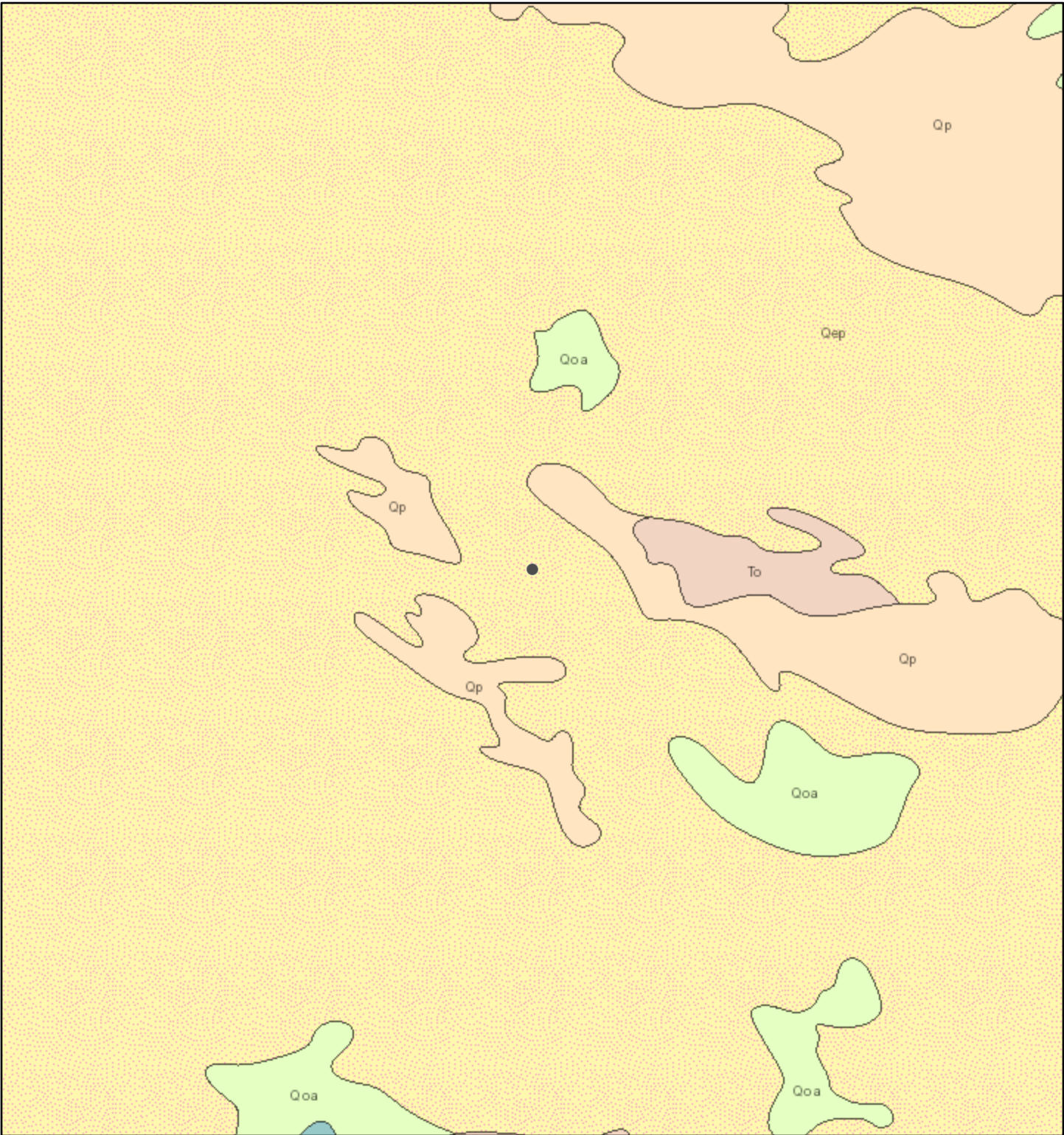
5. Number of gullies and erosion associated with gullies:

6. Extent of wind scoured, blowouts and/or depositional areas:

7. **Amount of litter movement (describe size and distance expected to travel):**
-
8. **Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):**
-
9. **Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):**
-
10. **Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:**
-
11. **Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):**
-
12. **Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):**
- Dominant:
- Sub-dominant:
- Other:
- Additional:
-
13. **Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):**
-
14. **Average percent litter cover (%) and depth (in):**
-
15. **Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):**
-
16. **Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:**
-

17. Perennial plant reproductive capability:

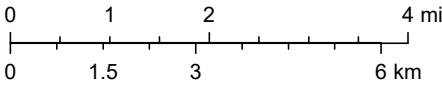
Prometheus Frac Line



6/12/2023, 11:38:49 AM

1:144,448

- Lithologic Units
- Playa—Alluvium and evaporite deposits (Holocene)
 - Water—Perennial standing water
 - Qa—Alluvium (Holocene to upper Pleistocene)



Esri, NASA, NGA, USGS, NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS

ArcGIS Web AppBuilder

APPENDIX C – Daily Field Reports



Daily Site Visit Report

Client:	<u>Ace Fluid Solutions</u>	Inspection Date:	<u>6/6/2023</u>
Site Location Name:	<u>Prometheus</u>	Report Run Date:	<u>6/6/2023 11:56 PM</u>
Client Contact Name:	<u>Stan Peach</u>	API #:	<u></u>
Client Contact Phone #:	<u>713-898-8212</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>6/6/2023 7:03 AM</u>
Departed Site	<u>6/6/2023 3:09 PM</u>

Daily Site Visit Report



Site Sketch

Site Sketch

Daily Site Visit Report



Field Notes

11:45 Site visit to review extents of release area.

11:46 EM survey to assist with horizontal extents of release and determine where excavation should be

12:06 Puddles of water are still around area where release occurred. Vegetation in higher spots very lush

17:22 Performed EM survey inside and outside barbed wire fence surrounding north portion of release. Performed EM survey on east side of pad and between pads for south portion of release.

17:23 Majority of EM anomalies in field were around release point.

17:25 Mapped known electrical lines, pipelines, and barbed wire fence in survey area to inform EM data analysis.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: West



Release area

Viewing Direction: Northwest



Previously sampled area

Viewing Direction: East



Release area





Viewing Direction: Southwest



Release area



Daily Site Visit Report

<p>Viewing Direction: East</p>  <p><small>Descriptive Photo: 5 Viewing Direction: East Area: Sampled area Created: 6/6/2023 12:06:16 PM Lat: 32.195315, Long: -103.577252</small></p>	<p>Viewing Direction: East</p>  <p><small>Descriptive Photo: 6 Viewing Direction: East Area: Vegetation near release area Created: 6/6/2023 12:06:28 PM Lat: 32.195315, Long: -103.577125</small></p>
Sampled area	Vegetation near release area
<p>Viewing Direction: East</p>  <p><small>Descriptive Photo: 7 Viewing Direction: East Area: Northern area Created: 6/6/2023 12:12:29 PM Lat: 32.195315, Long: -103.577252</small></p>	<p>Viewing Direction: Southeast</p>  <p><small>Descriptive Photo: 8 Viewing Direction: Southeast Area: Release area from road Created: 6/6/2023 12:13:38 PM Lat: 32.195315, Long: -103.577003</small></p>
Northern area	Release area from road



Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

A handwritten signature in black ink, consisting of a series of loops and a final circular flourish.

Signature



Daily Site Visit Report

Client:	<u>Ace Fluid Solutions</u>	Inspection Date:	<u>6/7/2023</u>
Site Location Name:	<u>Prometheus</u>	Report Run Date:	<u>6/7/2023 6:29 PM</u>
Client Contact Name:	<u>Stan Peach</u>	API #:	<u></u>
Client Contact Phone #:	<u>713-898-8212</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>6/7/2023 7:01 AM</u>
Departed Site	<u>6/7/2023 10:59 AM</u>

Daily Site Visit Report



Site Sketch

Site Sketch

Daily Site Visit Report



Field Notes

- 7:16** Completed JSA on arrival. On site to add to electromagnetic survey. Focus is the area along the north-south power line.
- 8:18** Confirmed that battery pack exceeded 5 volts prior to calibration. Calibrated Geonics EM 31 prior to survey.
- 9:28** Re-surveyed area along north-south power lines. Collected data perpendicular to power lines in attempt to minimize interference.
- 9:29** Surveyed south and southwest of release area to encapsulate anomalies observed from initial EM survey.
- 9:30** Southeast corner of survey was not completed due to large spools on the survey area. Surveyed around spools.
- 9:31** Pipeline immediately south of survey area may interfere with EM results.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: North



Southwest of approximate point of release facing north.

Viewing Direction: North



Between pads southwest of approximate release point facing north along power lines.

Viewing Direction: North



Southwest of approximate point of release facing north.

Viewing Direction: North



Southwest of approximate point of release facing north along north-south power lines.



Daily Site Visit Report

Viewing Direction: North



Southwest of approximate point of release facing north.

Viewing Direction: South



Southwest of approximate point of release facing south along north-south power lines.

Viewing Direction: South



South of approximate release point facing south.

Viewing Direction: Southwest



South of approximate release point facing southwest. Did not survey where spools were placed.



Daily Site Visit Report

Viewing Direction: North



South of approximate release point facing north.

Viewing Direction: Northwest



South of approximate release point facing northwest. Did not survey where spools were placed.

Viewing Direction: North



Between pads southwest of approximate release point facing north.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

A handwritten signature in black ink, appearing to be 'LP' with a large loop, written over a thin horizontal line.

Signature



Daily Site Visit Report

Client:	<u>Ace Fluid Solutions</u>	Inspection Date:	<u>6/28/2023</u>
Site Location Name:	<u>Prometheus</u>	Report Run Date:	<u>6/28/2023 11:12 PM</u>
Client Contact Name:	<u>Stan Peach</u>	API #:	<u></u>
Client Contact Phone #:	<u>713-898-8212</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>6/28/2023 7:02 AM</u>
Departed Site	<u>6/28/2023 3:59 PM</u>

Field Notes

- 7:47** Arrived at location and filled out safety paperwork. On site to collect soil samples and guide excavation. Will start at the northeast section of the excavation and push towards the east.
- 15:05** Collected wall samples throughout the day from new excavated areas. Field screened them for chlorides to determine which areas needed to be stepped out horizontally.
- 15:42** Done for the day: moved towards the west and sampled areas that connect the main 4ft excavation to the excavated trench to the west. Will need to continue pushing out west and sampling as the excavation progresses.

Next Steps & Recommendations

1

Daily Site Visit Report



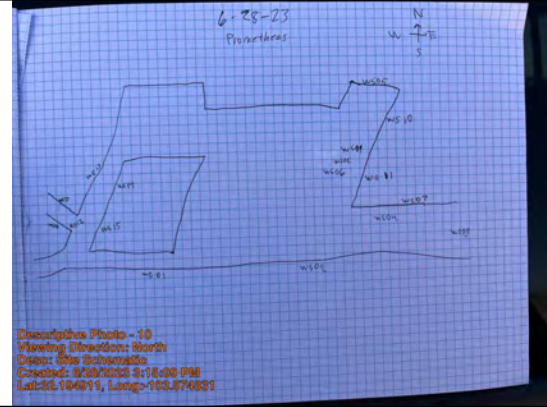
Site Photos

Viewing Direction: East



Overview of excavation

Viewing Direction: North



Site Schematic

Viewing Direction: Southwest



Overview of excavation





Viewing Direction: West



Overview of excavation



Daily Site Visit Report

<p>Viewing Direction: West</p>  <p>Description Photo - 6 Viewing Direction: West Event: Overview of excavation Created: 2/28/2023 3:10:32 PM Lat: 32.104011, Long: -103.674831</p>	<p>Viewing Direction: Northwest</p>  <p>Description Photo - 5 Viewing Direction: Northwest Event: Overview of excavation Created: 2/28/2023 3:11:00 PM Lat: 32.104011, Long: -103.674831</p>
Overview of excavation	Overview of excavation
<p>Viewing Direction: Northeast</p>  <p>Description Photo - 7 Viewing Direction: Northeast Event: Overview of excavation Created: 2/28/2023 3:11:40 PM Lat: 32.104011, Long: -103.674831</p>	<p>Viewing Direction: Northwest</p>  <p>Description Photo - 8 Viewing Direction: Northwest Event: Excavated trench Created: 2/28/2023 3:11:44 PM Lat: 32.104011, Long: -103.674831</p>
Overview of excavation	Excavated trench



Daily Site Visit Report

Viewing Direction: Northeast



Excavated areas west of main area

Viewing Direction: Southwest



Excavated areas west

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Fernando Rodriguez

Signature:

A handwritten signature in black ink, appearing to be 'F. Rodriguez', written over a thin horizontal line. Below the line, the word 'Signature' is printed in a small font.



Daily Site Visit Report

Client:	Ace Fluid Solutions	Inspection Date:	10/31/2023
Site Location Name:	Prometheus	Report Run Date:	11/1/2023 1:43 AM
Client Contact Name:	Stan Peach	API #:	
Client Contact Phone #:	713-898-8212		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	10/31/2023 7:34 AM
Departed Site	10/31/2023 5:53 PM

Field Notes

- 8:35** Completed JSA on arrival. On site to expand excavation and collect confirmation samples.
- 8:37** Conducted safety meeting with McCullar Welding, CHI, and hydrovac personnel. Filled out TapRock work permit.
- 8:38** Swept excavation area for the day with magnetic locator prior to ground disturbance.
- 9:18** Sent excavation work permit to Evan Ingram at Tap Rock and received approval to proceed with excavation.
- 9:32** Started excavation and scraping sidewalls in southeast corner of existing excavation.
- 13:46** Cut back excavation walls along southeast and southeast edges of east end of excavation. Increased depth of excavation to 4 feet bgs as sidewalls were redefined.
- 13:50** Collected excavation wall samples WS23-39, WS23-40, WS23-41, WS23-42, WS23-65, and WS23-66. Excavation walls were all to 0-4 feet bgs. Field screening results for were below NMOCD strictest criteria for chloride and TPH.
- 17:00** Collected Excavation base samples BS23-92 through BS23-100 at 4 feet bgs. Field screening results were below NMOCD threshold for chloride at DTGW>100 feet bgs.
- 17:01** Collected Excavation base samples BS23-84 through BS23-90 at 4 feet bgs. Field screening results were below NMOCD threshold for chloride at DTGW>100 feet bgs. Collected excavation wall sample WS23-67 from 0-4 feet bgs. Field screening results were below NMOCD strictest criteria.
- 17:04** Once confirmation samples were collected from 4 feet excavation, a liner was placed to stockpile soil from continued excavation.

Daily Site Visit Report



Next Steps & Recommendations

- 1 Continue excavation.

Daily Site Visit Report



Site Photos

Viewing Direction: North



Southeast corner of excavation facing north.
Excavated to 4 feet bgs.

Viewing Direction: Northwest



Southeast corner of excavation facing
northwest. Excavated to 4 feet bgs.

Viewing Direction: West



Southeast corner of excavation facing west.
Excavated to 4 feet bgs.

Viewing Direction: North



South edge of excavation facing north.
Excavated to 4 feet bgs.



Daily Site Visit Report

Viewing Direction: West



East end of excavation facing west. Liner in place.

Viewing Direction: Northwest



Southeast corner of excavation facing northwest.

Viewing Direction: North



South edge of excavation facing north.

Viewing Direction: North



South edge of excavation facing north.



Daily Site Visit Report

Viewing Direction: Northeast



South edge of excavation facing northeast.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line.

Signature



Daily Site Visit Report

Client:	Ace Fluid Solutions	Inspection Date:	1/19/2024
Site Location Name:	Prometheus	Report Run Date:	1/19/2024 11:23 PM
Client Contact Name:	Stan Peach	API #:	
Client Contact Phone #:	713-898-8212		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	1/19/2024 8:37 AM
Departed Site	1/19/2024 2:48 PM

Field Notes

- 11:52** Completed JSA on arrival. On site to collect additional wall samples and base samples from excavation surface.
- 11:56** Excavation east of EOG pad was required two remaining excavation wall confirmation samples. Five additional excavation base confirmation samples were to be collected.
- 11:57** Identified and mapped sampling areas in Arc Collector. Swept excavation surfaces with magnetic locator prior to sample collection.
- 14:37** Collected 5-point composite samples WS23-169 and WS23-170 from 200-square-foot sections of west excavation wall. Field screening results for wall excavation samples were below NMOCD strictest criteria for chloride and TPH.
- 14:41** Collected 5-point composite samples BS23-235 through BS23-239 from 400-square-foot sections of excavation base per approved variance from NMOCD. Field screening results for base excavation samples were below >100 feet DTGW threshold for chloride.
- 14:43** Excavation and confirmation sampling east of EOG pad is complete at 4 feet bgs pending laboratory results.

Next Steps & Recommendations

- 1 Submit samples to laboratory.

Daily Site Visit Report



Site Photos

Viewing Direction: South



Descriptive Photo - 1
Viewing Direction: South
Desc: Northeast of EOG pad facing south towards excavation west of EOG pad.
Created: 1/19/2024 12:53:46 PM
Lat: 32.184900, Long: -103.577854

Northeast of EOG pad facing south towards excavation west of EOG pad.

Viewing Direction: Northwest



Descriptive Photo - 2
Viewing Direction: Northwest
Desc: East of EOG pad facing northwest.
Created: 1/19/2024 12:54:34 PM
Lat: 32.184900, Long: -103.577847

East of EOG pad facing northwest.

Viewing Direction: South



Descriptive Photo - 3
Viewing Direction: South
Desc: East of EOG pad facing south.
Created: 1/19/2024 12:55:29 PM
Lat: 32.184900, Long: -103.577846

East of EOG pad facing south.

Viewing Direction: North



Descriptive Photo - 4
Viewing Direction: North
Desc: East of EOG pad facing north.
Created: 1/19/2024 12:55:04 PM
Lat: 32.184900, Long: -103.577840

East of EOG pad facing north.



Daily Site Visit Report

Viewing Direction: South



East of EOG pad facing south.

Viewing Direction: North



South of excavation east of EOG pad facing north-northwest.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line. Below the line, the word 'Signature' is printed in a small font.

Signature

APPENDIX D – Notifications and Correspondence

From: [Hamlet, Robert, EMNRD](#)
To: [Michael Moffitt](#)
Cc: [Bratcher, Michael, EMNRD](#)
Subject: Prometheus Remediation: Path Forward (Incident ID (n#) nAPP2226241849)
Date: Thursday, September 14, 2023 9:11:00 AM

Michael,

I read through the clarification notes from the email sent on 9/13/2023. Most of the notes seem to fall in line with the conditions mentioned in the application rejection. Two quick things need to be mentioned. One, please make sure the floor samples meet closure criteria standards from Table 1 of the OCD Spill Rule. If the target depth cannot be reached due to rock refusal, please outline specific locations and steps taken on the Closure Report. Second, if bioremediation and/or soil washing of soils/chlorides is conducted, Vertex would need to upload a formal remediation plan addendum through the OCD Permitting Portal outlining at a minimum, sampling treatment protocols, processes, and mechanics. This would need to be preapproved by the OCD before any work could be conducted and would most likely delay the remediation project even further.

At this time, the OCD Conditionally Approves the Remediation Plan with the included Vertex Clarifications. This email will be uploaded to the OCD Permitting Incident files for future reference.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Michael Moffitt <MMoffitt@vertex.ca>
Sent: Wednesday, September 13, 2023 3:54 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: [EXTERNAL] FW: Prometheus Remediation: Path Forward (incident ID (n#) nAPP2226241849)
Importance: High

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Robert,

Attached is the email I sent Mike as a follow up after he called me regarding his temporary leave and that his surgery had been moved up. Having spoken with Tami Knight as well from SLO ECO, they would like to see us act on the remediation ASAP as it has hung in the balance for quite some time. Having reviewed in detail the comments from NMOCD's denial of the work plan, I found that only minor changes would need to be included. If I interpreted the feedback that was provided wrong, please advise on what is missing. My write up below outlines our approach in response to the denial. Moreover, wait time on approvals of the resubmission would only prolong the process. With that in mind I believe the best course of action is to dig and haul the remainder of the contaminated soil in a straightforward fashion and take the location to closure once completed. Because the square footage variance for the base at 400 sq ft was approved, no other variances are proposed nor will be requested. What we are truly looking for is to start the clock and try and complete these actions within a 90-day time window per NMOCDs agreement of the terms. This would allow Vertex and our subcontractor the ability to mobilize ASAP and work toward confirmatory sampling and additional dirt removal. If you have any concerns with this proposal, let me know and we can establish a meeting time to review. Your responsiveness is appreciated, and I look forward to finalizing a path forward.

All the best,

Michael

From: Michael Moffitt

Sent: Tuesday, September 12, 2023 11:11 AM

To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: Prometheus Remediation: Path Forward (incident ID (n#) nAPP2226241849)

Importance: High

Mike,

Per our conversation yesterday afternoon regarding the Prometheus, I wanted to review the following bulleted line items below in response to the Remediation Plan denial for **incident ID (n#) nAPP2226241849**. These clarifications outline how Vertex, on behalf of Ace Fluids, will finalize remedial efforts towards site closure. If the terms are accepted, it is anticipated that final actions/efforts could take upwards of 90 days to complete. I have also included a section in this email from questions I answered that were asked by Tami Knight from SLO ECO. The responses further reiterate the steps we are actively taking towards closure and include redlines from prior proposed actions NMOCD did not approve. I appreciate your time, patience, and guidance on this matter. Vertex would also like to move the project forward ASAP since the site has been in limbo for months. Unfortunately, I believe a revised remediation plan/resubmittal would draw the timeline out. Additionally, our clients would like to take this directly to closure since the end goal is straightforward at our current stage in the process. Lastly, please do not hesitate to reach out if you have any questions or require further information.

NMOCD Application Rejection Clause:

The OCD has rejected the submitted Application for administrative approval of a release notification and corrective action (C-141), for incident ID (n#) nAPP2226241849, for the following reasons: The Remediation Plan is Denied. The variance request for limited excavation depth is denied. If rock refusal interferes with the remediation process, use a back-hoe/track-hoe to remove the rock. If the rock is immovable and target depth cannot be reached, use a hydrovac to clean the contaminated soil off the rock surface and outline specific locations and steps taken on the Closure Report. The largest variance confirmation floor sample size that the OCD can currently grant at this time is 400 ft². The variance is approved for 400 ft² floor confirmation samples. Confirmation sidewall samples will need to be taken from the sides of the excavation, representing no more than 200 ft². All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed.

Vertex Clarifications:

1. Vertex, through our construction subcontractors, will strive to ensure a minimum depth of 4ft bgs is achieved to establish a rooting zone for vegetation while also meeting criteria for DTGW being greater than 100 ft bgs. Appropriate equipment will be sourced and utilized if hard pan continues to be encountered.
2. Washing of the soils/chlorides through remedial agents or cleaning of the hard pan subsurface within the excavation via a hydrovac is not anticipated nor preferred. The suggestion by NMOCD was taken into consideration but will be avoided unless all other options become technically unfeasible.
3. The affected area of concern (AOC) will be addressed through traditional remediation efforts via digging and hauling of contaminated soils.
4. Excavation of soils will be guided by field screening, the EM survey Vertex performed, and perimeters established by SMA's prior characterization of the site.
5. Confirmation samples will be collected at 200 ft² for sidewalls and 400 ft² for bottom samples only.
6. All samples will be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC respectively.
7. The closure report will document and detail all actions taken towards the remediation.
8. Reclamation of off pad areas will be addressed and met according to NMOCD 19.15.29.13 and SLO ECO's stipulations which can be referenced below.

SLO ECO Q/A Correspondance:

I wanted to provide a response to the questions asked by Tami below.

1. **"Since the remediation efforts proposed are occurring in areas previously undisturbed, documentation of compliance with the Cultural Properties Protection Rule is needed in the Remediation Plan."**

a. I have attached what SMA sent to us regarding an ARMS review by a 3rd party vendor.

If further information is need such as a Class 1 map query, I can get with Advanced Archeological Solutions to fulfill the request.

- b. The release occurred in an area that includes multiple well sites, ROWs, utility lines and roads (two tracks/main thoroughfares). Because all assets located in or near the impacted area are leased by SLO to various stakeholders, I do not expect liabilities related to cultural resources to be a problem. Buffer zones from the initial archeological surveys that were performed prior to development are encountered during lease permitting.
 - c. If the attached cultural resource cover sheet applies to the ARMS request, Vertex will amend the remediation plan, include it with the appendices, and submit the changes to ECO via eco@slo.state.nm.us
2. **"The remediation is occurring in areas with natural vegetation. The remediation plan does not address reclamation of these areas. Please include a reclamation plan of the off-pad areas. Since NMOCD defers to the Surface Owner for reclamation, I am pretty sure the amendment does not need to be submitted to NMOCD, but NMSLO would like to have the written plan on record."**
 - a. NMAC [19.15.29.13](#) accounts for reclamation standards under NMOCD regulations and would be addressed in the final closure report/accounted for. Remediation plans are developed to address the removal of impacted soils and are separate from a formal reclamation plan. Post closure restoration activities default to the stakeholder and their stipulations such as BLM Sundry Notice or SLO C-103 Q for well site reclamation post P & A.
 - b. Vertex performs extensive work pertaining to reclamation in New Mexico. We are also a state approved vendor for the Orphan Well Program. To ensure ECO requirements are met, Vertex will prepare and submit a separate reclamation plan. The affected areas would be ripped to prepare the seed bed and an appropriate seed mix would be chosen that matches background. Soil survey details would be provided and a reclamation with corrective actions inspection would be performed prior to backfilling of the site. The corrective action report tracks vegetative establishment and is an instrument use for subsequent monitoring of sites. NMOCD does not require that level of detail in closure reports. Only affected areas off pad that require restoration would be accounted for and outlined with a GIS based figure. Drone aeriels are typically used, and geo referenced to existing structures if up-to-date imagery if satellite is not available.
3. **"Regarding the sampling variance requestion of 1,000 square feet, NMOCD is the regulatory agency, so NMSLO will defer this approval to NMOCD regarding the sampling variance request."**
 - a. ~~It is anticipated that the sample variance request would be much lower. Upon conditions set by NMOCD, Vertex and Ace will meet the guidance they provide. Assumptions will not be made, and confirmation sampling will only occur until the square footage variance is determined.~~
4. **"Regarding the impacted caliche and the request to leave in place. NMSLO recognizes the challenge of remediation in this lithology. We also have concerns about how this may hinder a successful revegetation. Do you have an idea of how large of an area**

this impacted caliche may be? Would you consider an in-situ treatment of residual chlorides or hydrocarbons within the impacted caliche prior to backfilling? Something that may aid in the breakdown of hydrocarbons or stabilize the chlorides where they will not impact revegetation efforts?"

- a. Vertex and Ace will attempt to meet [19.15.29.13](#) standard for reclamation of the top 4' in all areas that refusal is not encountered. Extra efforts to see if the caliche can be broken into will be applied. **Moreover, NMOCD may deny the request.** With DTGW being greater than 100-foot bgs and hard pan rock being present, I believe they will consider our position in good faith. Hammering out the rock would contrast with the natural soil lithology in the area and is an arduous/destructive process. If a release occurred within the remediated/backfilled excavation area, fluids will then have a pathway to reach greater depth. A barrier such as bentonite cap or a GCL would also not be suggested as it would not change the predetermined rooting zone created by the hard pan layer. **Guidance was provided by NMOCD via rejection of the proposed action. All soils will be dug and hauled accordingly and to a depth of 4 ft BGS if necessitated. If bottom samples exceed criteria they will be excavated until thresholds are met.**
- b. If soil amendments are deemed necessary, the reclamation plan would cover their application and would be determined through composite sampling of background/vegetated areas near the remediation. Composite sampling of the topsoil used for replacement would also occur (in this case mostly sand). All samples will be sent in for laboratory analysis to compare nutrient composition for potential soil amendment recommendations (ex - Method 9056: Bromide, chloride, fluoride, sulfate, nitrate, nitrite). The initial reclamation plan would account for the background sampling only. Updates would be sent to ECO after a source is established for backfill.
- c. I would like to note that NMOCD will not accept the use of any chemical-based remedial agents for chlorides. The BLM holds the same position. Application of chemical to reduce chlorides would affect closure and will be denied. Additionally, TPH is not an issue at this site. If confirmation samples come back for hydrocarbons greater than the established criteria (100 TPH for 0-4 ft bgs and 2,500 TPH/1,500 GRO+DRO at 4 ft bgs and greater), biomedical agents such as Remediate or Micro-Blaze would be taken into consideration. NMOCD would have to approve their usage prior to treatment.

Kind regards,

Michael

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 265294

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 265294
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Prometheus Remediation Proposal. Attached email contains points of clarification and path forward on the remediation project.	9/14/2023



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

48 Hour Sampling Notification for Prometheus Frac Line nAPP2226241849

2 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Mon, Sep 25, 2023 at 4:25 PM

To: "Wells, Shelly, EMNRD" <Shelly.Wells@emnrd.nm.gov>, "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>, eco@slo.state.nm.us, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Cc: mmoffitt@vertex.ca, SCarttar@vertex.ca

Hello,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

Prometheus Frac Line, nAPP2226241849

Final confirmation sampling is scheduled to begin Thursday, September 28 at approximately 8:00 a.m. and will be continuous through the following Saturday, October 7. If you have any questions regarding this notification, please contact 575-361-3561.

Best,

Sally Carttar BA

Int. Environmental Technologist

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

C 575.361.3561**Rodgers, Scott, EMNRD** <Scott.Rodgers@emnrd.nm.gov>

Mon, Sep 25, 2023 at 4:45 PM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>, "Wells, Shelly, EMNRD" <Shelly.Wells@emnrd.nm.gov>, "eco@slo.state.nm.us" <eco@slo.state.nm.us>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Velez, Nelson, EMNRD" <Nelson.Velez@emnrd.nm.gov>

Cc: "mmoffitt@vertex.ca" <mmoffitt@vertex.ca>, "SCarttar@vertex.ca" <SCarttar@vertex.ca>

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113

505.469.1830 | scott.rodgers@emnrd.nm.gov

<http://www.emnrd.nm.gov/ocd>



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Monday, September 25, 2023 4:26 PM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; eco@slo.state.nm.us; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Cc: mmoffitt@vertex.ca; SCarttar@vertex.ca

Subject: [EXTERNAL] 48 Hour Sampling Notification for Prometheus Frac Line nAPP2226241849

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

[Quoted text hidden]



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

48 Hour Sampling Notification for Prometheus Frac Line nAPP2226241849

6 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Fri, Oct 27, 2023 at 8:25 AM

To: "Wells, Shelly, EMNRD" <shelly.wells@emnrd.nm.gov>, "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>, eco@slo.state.nm.us, mmoffitt@vertex.ca

Hello,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

Prometheus Frac Line, nAPP2226241849

Final confirmation sampling is scheduled to begin Tuesday, October 31st at approximately 8:30 a.m. and will be continuous through the following Saturday, November 4th. If you have any questions regarding this notification, please contact 575-361-3561.

Best,

Sally Carttar BA

Int. Environmental Technologist

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

C 575.361.3561**Wells, Shelly, EMNRD** <Shelly.Wells@emnrd.nm.gov>

Fri, Oct 27, 2023 at 8:54 AM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>, "eco@slo.state.nm.us" <eco@slo.state.nm.us>, "mmoffitt@vertex.ca" <mmoffitt@vertex.ca>

Cc: "Velez, Nelson, EMNRD" <Nelson.Velez@emnrd.nm.gov>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Good morning Sally,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Friday, October 27, 2023 8:25 AM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; eco@slo.state.nm.us; mmoffitt@vertex.ca

Subject: [EXTERNAL] 48 Hour Sampling Notification for Prometheus Frac Line nAPP2226241849

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Hello,

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Prometheus Frac Line, nAPP2226241849

Final confirmation sampling is scheduled to begin Tuesday, October 31st at approximately 8:30 a.m. and will be continuous through the following Saturday, November 4th. If you have any questions regarding this notification, please contact 575-361-3561.

Best,

Sally Carttar BA

Int. Environmental Technologist

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

C 575.361.3561

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Wed, Nov 1, 2023 at 7:23 PM

To: "Wells, Shelly, EMNRD" <Shelly.Wells@emnrd.nm.gov>, "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>

Cc: "eco@slo.state.nm.us" <eco@slo.state.nm.us>, "mmoffitt@vertex.ca" <mmoffitt@vertex.ca>

Greetings,

Hello,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

Prometheus Frac Line, nAPP2226241849

Final confirmation sampling is scheduled to continue Monday, November 6th at approximately 8:30 a.m. and will be continuous through the following Saturday, November 11th. If you have any questions regarding this notification, please contact 701-495-1722.

Thanks,

Lakin Pullman

Environmental Specialist

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad, NM 88220

C 701.495.1722

On Fri, Oct 27, 2023 at 8:54 AM Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov> wrote:

Good morning Sally,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Friday, October 27, 2023 8:25 AM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>;
eco@slo.state.nm.us; mmoffitt@vertex.ca

Subject: [EXTERNAL] 48 Hour Sampling Notification for Prometheus Frac Line nAPP2226241849

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Best,

Sally Carttar BA

Int. Environmental Technologist

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

C 575.361.3561

Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Thu, Nov 2, 2023 at 8:52 AM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>, "Wells, Shelly, EMNRD" <Shelly.Wells@emnrd.nm.gov>

Cc: "eco@slo.state.nm.us" <eco@slo.state.nm.us>, "mmoffitt@vertex.ca" <mmoffitt@vertex.ca>, "Velez, Nelson, EMNRD" <Nelson.Velez@emnrd.nm.gov>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Good morning Lakin,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Wednesday, November 1, 2023 7:24 PM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: eco@slo.state.nm.us; mmoffitt@vertex.ca

Subject: Re: [EXTERNAL] 48 Hour Sampling Notification for Prometheus Frac Line nAPP2226241849

Greetings,

Hello,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

Prometheus Frac Line, nAPP2226241849

Final confirmation sampling is scheduled to continue Monday, November 6th at approximately 8:30 a.m. and will be continuous through the following Saturday, November 11th. If you have any questions regarding this notification, please contact 701-495-1722.

Thanks,

Lakin Pullman

Environmental Specialist

Vertex Resource Services Inc.

3101 Boyd Drive

Carlsbad, NM 88220

C 701.495.1722

On Fri, Oct 27, 2023 at 8:54 AM Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov> wrote:

Good morning Sally,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Friday, October 27, 2023 8:25 AM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>;
eco@slo.state.nm.us; mmoffitt@vertex.ca

Subject: [EXTERNAL] 48 Hour Sampling Notification for Prometheus Frac Line nAPP2226241849

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Prometheus Frac Line, nAPP2226241849

Final confirmation sampling is scheduled to begin Tuesday, October 31st at approximately 8:30 a.m. and will be continuous through the following Saturday, November 4th. If you have any questions regarding this notification, please contact 575-361-3561.

Best,

Sally Carttar BA
Int. Environmental Technologist

Vertex Resource Services Inc.
3101 Boyd Drive,
Carlsbad, NM 88220

C 575.361.3561

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Wed, Nov 8, 2023 at 9:53 AM

To: "Wells, Shelly, EMNRD" <Shelly.Wells@emnrd.nm.gov>

Cc: "eco@slo.state.nm.us" <eco@slo.state.nm.us>, "mmoffitt@vertex.ca" <mmoffitt@vertex.ca>, "Velez, Nelson, EMNRD" <Nelson.Velez@emnrd.nm.gov>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Hello,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

Prometheus Frac Line, nAPP2226241849

Confirmation sampling is scheduled to begin Sunday, November 12th at approximately 8:00 a.m. and will be continuous through the following Saturday, November 18th. If you have any questions regarding this notification, please contact 575-361-3561.

Best,

Sally Carttar BA
Int. Environmental Technologist

Vertex Resource Services Inc.
3101 Boyd Drive,
Carlsbad, NM 88220

C 575.361.3561

On Thu, Nov 2, 2023 at 8:53 AM Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov> wrote:

Good morning Lakin,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Wednesday, November 1, 2023 7:24 PM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: eco@slo.state.nm.us; mmoffitt@vertex.ca

Subject: Re: [EXTERNAL] 48 Hour Sampling Notification for Prometheus Frac Line nAPP2226241849

Greetings,

Hello,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

Prometheus Frac Line, nAPP2226241849

Final confirmation sampling is scheduled to continue Monday, November 6th at approximately 8:30 a.m. and will be continuous through the following Saturday, November 11th. If you have any questions regarding this notification, please contact 701-495-1722.

Thanks,

Lakin Pullman

Environmental Specialist

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad, NM 88220

C 701.495.1722

On Fri, Oct 27, 2023 at 8:54 AM Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov> wrote:

| Good morning Sally,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Friday, October 27, 2023 8:25 AM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; eco@slo.state.nm.us; mmoffitt@vertex.ca

Subject: [EXTERNAL] 48 Hour Sampling Notification for Prometheus Frac Line nAPP2226241849

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Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

Prometheus Frac Line, nAPP2226241849

Final confirmation sampling is scheduled to begin Tuesday, October 31st at approximately 8:30 a.m. and will be continuous through the following Saturday, November 4th. If you have any questions regarding this notification, please contact 575-361-3561.

Best,

Sally Carttar BA

Int. Environmental Technologist

Vertex Resource Services Inc.
3101 Boyd Drive,
Carlsbad, NM 88220

C 575.361.3561

Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Wed, Nov 8, 2023 at 10:12 AM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>, "Wells, Shelly, EMNRD" <Shelly.Wells@emnrd.nm.gov>

Cc: "eco@slo.state.nm.us" <eco@slo.state.nm.us>, "mmoffitt@vertex.ca" <mmoffitt@vertex.ca>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Good morning Sally,

Thank you for the notice.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Wednesday, November 8, 2023 9:53 AM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Cc: eco@slo.state.nm.us <eco@slo.state.nm.us>; mmoffitt@vertex.ca <mmoffitt@vertex.ca>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: Re: [EXTERNAL] 48 Hour Sampling Notification for Prometheus Frac Line nAPP2226241849

Hello,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

Prometheus Frac Line, nAPP2226241849

Confirmation sampling is scheduled to begin Sunday, November 12th at approximately 8:00 a.m. and will be continuous through the following Saturday, November 18th. If you have any questions regarding this notification, please contact 575-361-3561.

Best,

Sally Carttar BA
Int. Environmental Technologist

Vertex Resource Services Inc.
3101 Boyd Drive,
Carlsbad, NM 88220

C 575.361.3561

On Thu, Nov 2, 2023 at 8:53 AM Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov> wrote:

Good morning Lakin,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Wednesday, November 1, 2023 7:24 PM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: eco@slo.state.nm.us; mmoffitt@vertex.ca

Subject: Re: [EXTERNAL] 48 Hour Sampling Notification for Prometheus Frac Line nAPP2226241849

Greetings,

Hello,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

Prometheus Frac Line, nAPP2226241849

Final confirmation sampling is scheduled to continue Monday, November 6th at approximately 8:30 a.m. and will be continuous through the following Saturday, November 11th. If you have any questions regarding this notification, please contact 701-495-1722.

Thanks,

Lakin Pullman

Environmental Specialist

Vertex Resource Services Inc.

3101 Boyd Drive

Carlsbad, NM 88220

C 701.495.1722

On Fri, Oct 27, 2023 at 8:54 AM Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov> wrote:

Good morning Sally,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Friday, October 27, 2023 8:25 AM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>;
eco@slo.state.nm.us; mmoffitt@vertex.ca

Subject: [EXTERNAL] 48 Hour Sampling Notification for Prometheus Frac Line nAPP2226241849

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

Prometheus Frac Line, nAPP2226241849

Final confirmation sampling is scheduled to begin Tuesday, October 31st at approximately 8:30 a.m. and will be continuous through the following Saturday, November 4th. If you have any questions regarding this notification, please contact 575-361-3561.

Best,

Sally Carttar BA

Int. Environmental Technologist

Vertex Resource Services Inc.

3101 Boyd Drive,
Carlsbad, NM 88220

C 575.361.3561

Re: [EXTERNAL] 48-Hour Notification - Prometheus Frac Line

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sun 12/3/2023 6:14 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Lakin Pullman <LPullman@vertex.ca>; Michael Moffitt <MMoffitt@vertex.ca>; Sally Carttar <SCarttar@vertex.ca>

Hello,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

Prometheus Frac Line, nAPP2226241849

Final confirmation sampling is scheduled to begin Wednesday, December 6, 2023, at approximately 08:00 a.m. and will be continuous through Sunday, December 10, 2023. If you have any questions regarding this notification, please contact 701-495-1722.

Thanks,

Lakin Pullman

Environmental Specialist
Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad, NM 88220

On Mon, Nov 27, 2023 at 9:38 AM Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov> wrote:

Hi Chance,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Monday, November 27, 2023 9:07 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: lpullman@vertex.ca; mmoffitt@vertex.ca
Subject: [EXTERNAL] 48-Hour Notification - Prometheus Frac Line

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

Prometheus Frac Line, nAPP2226241849

Final confirmation sampling is scheduled to begin Wednesday, November 29, 2023, at approximately 10:00 a.m. and will be continuous through Sunday, December 3, 2023. If you have any questions regarding this notification, please contact 701-495-1722.

Chance Dixon B.Sc.
Project Manager

Vertex Resource Services Inc.
3101 Boyd Drive,
Carlsbad, NM 88220

C 575.988.1472

Lakin Pullman

From: OCDOnline@state.nm.us
Sent: Monday, January 1, 2024 2:08 PM
To: Bill Ramsey
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 298643

[EXTERNAL] This email originated from outside your organization. Do not trust links or attachments.

To whom it may concern (c/o Bill Ramsey for TAP ROCK OPERATING, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2226241849.

The sampling event is expected to take place:

When: 01/03/2023 @ 14:00

Where: O-27-24S-35E 0 FNL 0 FEL (32.19561,-103.35751)

Additional Information: Vertex will be completing sampling on this spill on 1/3/2023. Sally Carter will be the point of contact for this. Her phone number and email are below:

Sally Carttar
575-361-3561
SCarttar@vertex.ca

Additional Instructions: Vertex will be completing sampling on this spill on 1/3/2023. Sally Carter will be the point of contact for this. Her phone number and email are below:

Sally Carttar
575-361-3561
SCarttar@vertex.ca

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	290963	Districts:	Hobbs
Operator:	[372043] TAP ROCK OPERATING, LLC	Counties:	Lea
Description:	TAP ROCK OPERATING, LLC [372043] , PROMETHEUS FRAC LINE , nAPP2226241849		
Status:	APPROVED		
Status Date:	12/04/2023		
References (2):	30-025-41139, nAPP2226241849		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2226241849
Incident Name	NAPP2226241849 PROMETHEUS FRAC LINE @ 30-025-41139
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-025-41139] JACKSON UNIT #020H

Location of Release Source

Site Name	PROMETHEUS FRAC LINE
Date Release Discovered	09/12/2022
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/07/2023
Time sampling will commence	07:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers Michael Moffitt Vertex Resources Services His cell phone number is 575-988-2681 MMoffitt@vertex.ca is his e will be on site during the sampling period from Thursday with sampling expected to end Saturday (12/09/2023)

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary: *bramsey (12/4/2023)*, Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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Lakin Pullman

From: OCDOnline@state.nm.us
Sent: Thursday, January 4, 2024 1:58 PM
To: Bill Ramsey
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 300059

[EXTERNAL] This email originated from outside your organization. Do not trust links or attachments.

To whom it may concern (c/o Bill Ramsey for TAP ROCK OPERATING, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2226241849.

The sampling event is expected to take place:

When: 01/06/2023 @ 14:00

Where: O-27-24S-35E 0 FNL 0 FEL (32.19561,-103.35751)

Additional Information: • Saturday, January 6th starting 48 hours from the notification, 11,450 sq.ft. 60 samples
• Sunday, January 7th starting 8am, 11,450 sq.ft. 60 samples
• Monday, January 8th starting 8am, 11,450 sq.ft. 60 samples

Sally Cattar with Vertex will be the point of contact for this spill release. Her contact information is as follows:
575-361-3561
SCarttar@vertex.ca

Additional Instructions: • Saturday, January 6th starting 48 hours from the notification, 11,450 sq.ft. 60 samples
• Sunday, January 7th starting 8am, 11,450 sq.ft. 60 samples
• Monday, January 8th starting 8am, 11,450 sq.ft. 60 samples

Sally Cattar with Vertex will be the point of contact for this spill release. Her contact information is as follows:
575-361-3561
SCarttar@vertex.ca

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	300870	Districts:	Hobbs
Operator:	[372043] TAP ROCK OPERATING, LLC	Counties:	Lea
Description:	TAP ROCK OPERATING, LLC [372043] , PROMETHEUS FRAC LINE , nAPP2226241849		
Status:	APPROVED		
Status Date:	01/08/2024		
References (2):	30-025-41139, nAPP2226241849		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2226241849
Incident Name	NAPP2226241849 PROMETHEUS FRAC LINE @ 30-025-41139
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-025-41139] JACKSON UNIT #020H

Location of Release Source

Site Name	PROMETHEUS FRAC LINE
Date Release Discovered	09/12/2022
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	6,500
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/10/2024
Time sampling will commence	09:30 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers
Wednesday, January 10th starting 9:30am, 2,191 sq.ft. 15 samples Thursday, January 11th starting 8am, 2,191 sq.ft. 15 samples Friday, January 12th starting 8am, 2,191 sq.ft. 15 samples Sally Cattar with Vertex will be the point of contact for release. Her contact information is as follows: 575-361-3561 SCarttar@vertex.ca

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary: *bramsey (1/8/2024)*, Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	303846	Districts:	Hobbs
Operator:	[372043] TAP ROCK OPERATING, LLC	Counties:	Lea
Description:	TAP ROCK OPERATING, LLC [372043] , PROMETHEUS FRAC LINE , nAPP2226241849		
Status:	APPROVED		
Status Date:	01/16/2024		
References (2):	30-025-41139, nAPP2226241849		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2226241849
Incident Name	NAPP2226241849 PROMETHEUS FRAC LINE @ 30-025-41139
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-025-41139] JACKSON UNIT #020H

Location of Release Source

Site Name	PROMETHEUS FRAC LINE
Date Release Discovered	09/12/2022
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	400
What is the estimated number of samples that will be gathered	2
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/19/2024
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	If you have any questions or need directions to the site, please contact Sally Carttar at 361-3561.
Please provide any information necessary for navigation to sampling site	32.195488, -103.575323

Comments

No comments found for this submission.

Conditions

Summary: vertex1 (1/16/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Edit to Sampling Notification 303846

2 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Fri, Jan 19, 2024 at 8:35 AM

To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>, "Wells, Shelly, EMNRD" <shelly.wells@emnrd.nm.gov>, lpullman@vertex.ca, SCarttar@vertex.ca

Good morning!

Vertex currently has an active sampling notification at the Prometheus Frac Line, which I have attached to this email. However, instead of two samples, we will be collecting 10 sample points representative of 3,817 square feet total. This consists of 4 wall samples each representative of no more than 200 sq.ft. and 6 base samples each representative of no more than 400 sq.ft. per our approved variance.

Please let me know if you have any questions!

Sally Carttar BA

Int. Environmental Technologist

Vertex Resource Services Inc.
3101 Boyd Drive,
Carlsbad, NM 88220

C 575.361.3561www.vertex.ca

[webpage]Connect with LinkedIn

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 **Sampling Notification 303846.pdf**
97K**Wells, Shelly, EMNRD** <Shelly.Wells@emnrd.nm.gov>

Fri, Jan 19, 2024 at 8:38 AM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>, "lpullman@vertex.ca" <lpullman@vertex.ca>, "SCarttar@vertex.ca" <SCarttar@vertex.ca>

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Good morning,

Thanks for letting the OCD know!

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Friday, January 19, 2024 8:36 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; lpullman@vertex.ca; SCarttar@vertex.ca

Subject: [EXTERNAL] Edit to Sampling Notification 303846

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

[Quoted text hidden]

APPENDIX E – Laboratory Data Reports and Chain of Custody Forms



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 11, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2309H61

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 10 sample(s) on 9/30/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2309H61

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-01 4'

Project: Prometheus

Collection Date: 9/28/2023 8:50:00 AM

Lab ID: 2309H61-001

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/4/2023 1:34:15 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/4/2023 1:34:15 AM
Surr: DNOP	113	69-147		%Rec	1	10/4/2023 1:34:15 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2023 2:03:00 AM
Surr: BFB	103	15-244		%Rec	1	10/4/2023 2:03:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	10/4/2023 2:03:00 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2023 2:03:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2023 2:03:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/4/2023 2:03:00 AM
Surr: 4-Bromofluorobenzene	92.7	39.1-146		%Rec	1	10/4/2023 2:03:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	200	60		mg/Kg	20	10/4/2023 6:04:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2309H61
Date Reported: 10/11/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-02 4'
Project: Prometheus Collection Date: 9/28/2023 8:55:00 AM
Lab ID: 2309H61-002 Matrix: SOIL Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/3/2023 3:42:05 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/3/2023 3:42:05 PM
Surr: DNOP	106	69-147		%Rec	1	10/3/2023 3:42:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2023 7:12:27 PM
Surr: BFB	90.0	15-244		%Rec	1	10/4/2023 7:12:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	10/4/2023 7:12:27 PM
Toluene	ND	0.049		mg/Kg	1	10/4/2023 7:12:27 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2023 7:12:27 PM
Xylenes, Total	ND	0.098		mg/Kg	1	10/4/2023 7:12:27 PM
Surr: 4-Bromofluorobenzene	97.2	39.1-146		%Rec	1	10/4/2023 7:12:27 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	290	60		mg/Kg	20	10/4/2023 7:06:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2309H61

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-03 4'

Project: Prometheus

Collection Date: 9/28/2023 9:00:00 AM

Lab ID: 2309H61-003

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/3/2023 3:52:49 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/3/2023 3:52:49 PM
Surr: DNOP	92.4	69-147		%Rec	1	10/3/2023 3:52:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2023 8:22:32 PM
Surr: BFB	92.8	15-244		%Rec	1	10/4/2023 8:22:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/4/2023 8:22:32 PM
Toluene	ND	0.048		mg/Kg	1	10/4/2023 8:22:32 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2023 8:22:32 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/4/2023 8:22:32 PM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	10/4/2023 8:22:32 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	470	60		mg/Kg	20	10/4/2023 7:18:22 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2309H61

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-04 4'

Project: Prometheus

Collection Date: 9/28/2023 9:00:00 AM

Lab ID: 2309H61-004

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/3/2023 4:03:31 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/3/2023 4:03:31 PM
Surr: DNOP	97.7	69-147		%Rec	1	10/3/2023 4:03:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2023 9:32:58 PM
Surr: BFB	89.8	15-244		%Rec	1	10/4/2023 9:32:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	10/4/2023 9:32:58 PM
Toluene	ND	0.047		mg/Kg	1	10/4/2023 9:32:58 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2023 9:32:58 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/4/2023 9:32:58 PM
Surr: 4-Bromofluorobenzene	98.4	39.1-146		%Rec	1	10/4/2023 9:32:58 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	85	60		mg/Kg	20	10/4/2023 7:30:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2309H61

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-05 4'

Project: Prometheus

Collection Date: 9/28/2023 9:05:00 AM

Lab ID: 2309H61-005

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/3/2023 4:14:15 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/3/2023 4:14:15 PM
Surr: DNOP	94.4	69-147		%Rec	1	10/3/2023 4:14:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2023 9:56:27 PM
Surr: BFB	89.0	15-244		%Rec	1	10/4/2023 9:56:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	10/4/2023 9:56:27 PM
Toluene	ND	0.049		mg/Kg	1	10/4/2023 9:56:27 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2023 9:56:27 PM
Xylenes, Total	ND	0.098		mg/Kg	1	10/4/2023 9:56:27 PM
Surr: 4-Bromofluorobenzene	97.0	39.1-146		%Rec	1	10/4/2023 9:56:27 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	680	60		mg/Kg	20	10/4/2023 7:43:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2309H61

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-06 4'

Project: Prometheus

Collection Date: 9/28/2023 9:10:00 AM

Lab ID: 2309H61-006

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/3/2023 4:24:58 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/3/2023 4:24:58 PM
Surr: DNOP	103	69-147		%Rec	1	10/3/2023 4:24:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2023 10:20:01 PM
Surr: BFB	89.7	15-244		%Rec	1	10/4/2023 10:20:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/4/2023 10:20:01 PM
Toluene	ND	0.049		mg/Kg	1	10/4/2023 10:20:01 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2023 10:20:01 PM
Xylenes, Total	ND	0.098		mg/Kg	1	10/4/2023 10:20:01 PM
Surr: 4-Bromofluorobenzene	97.9	39.1-146		%Rec	1	10/4/2023 10:20:01 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	3100	150		mg/Kg	50	10/5/2023 8:10:30 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2309H61

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-07 4'

Project: Prometheus

Collection Date: 9/28/2023 9:10:00 AM

Lab ID: 2309H61-007

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/3/2023 4:35:39 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/3/2023 4:35:39 PM
Surr: DNOP	98.4	69-147		%Rec	1	10/3/2023 4:35:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/4/2023 10:43:24 PM
Surr: BFB	92.9	15-244		%Rec	1	10/4/2023 10:43:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	10/4/2023 10:43:24 PM
Toluene	ND	0.050		mg/Kg	1	10/4/2023 10:43:24 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/4/2023 10:43:24 PM
Xylenes, Total	ND	0.099		mg/Kg	1	10/4/2023 10:43:24 PM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	10/4/2023 10:43:24 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2600	150		mg/Kg	50	10/5/2023 8:22:54 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2309H61

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-08 4'

Project: Prometheus

Collection Date: 9/28/2023 9:13:00 AM

Lab ID: 2309H61-008

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/3/2023 4:46:23 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/3/2023 4:46:23 PM
Surr: DNOP	86.8	69-147		%Rec	1	10/3/2023 4:46:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2023 11:06:51 PM
Surr: BFB	90.7	15-244		%Rec	1	10/4/2023 11:06:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/4/2023 11:06:51 PM
Toluene	ND	0.048		mg/Kg	1	10/4/2023 11:06:51 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2023 11:06:51 PM
Xylenes, Total	ND	0.097		mg/Kg	1	10/4/2023 11:06:51 PM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	10/4/2023 11:06:51 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	1600	61		mg/Kg	20	10/4/2023 8:20:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2309H61

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-09 4'

Project: Prometheus

Collection Date: 9/28/2023 9:15:00 AM

Lab ID: 2309H61-009

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/3/2023 4:57:03 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/3/2023 4:57:03 PM
Surr: DNOP	101	69-147		%Rec	1	10/3/2023 4:57:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/4/2023 11:30:27 PM
Surr: BFB	91.8	15-244		%Rec	1	10/4/2023 11:30:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	10/4/2023 11:30:27 PM
Toluene	ND	0.050		mg/Kg	1	10/4/2023 11:30:27 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/4/2023 11:30:27 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/4/2023 11:30:27 PM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	10/4/2023 11:30:27 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	5700	300		mg/Kg	100	10/5/2023 8:35:19 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2309H61

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-10 4'

Project: Prometheus

Collection Date: 9/28/2023 9:20:00 AM

Lab ID: 2309H61-010

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/3/2023 5:07:43 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/3/2023 5:07:43 PM
Surr: DNOP	103	69-147		%Rec	1	10/3/2023 5:07:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2023 11:53:54 PM
Surr: BFB	89.1	15-244		%Rec	1	10/4/2023 11:53:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/4/2023 11:53:54 PM
Toluene	ND	0.048		mg/Kg	1	10/4/2023 11:53:54 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2023 11:53:54 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/4/2023 11:53:54 PM
Surr: 4-Bromofluorobenzene	97.4	39.1-146		%Rec	1	10/4/2023 11:53:54 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	1100	60		mg/Kg	20	10/4/2023 8:44:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309H61
11-Oct-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: MB-77946	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 77946	RunNo: 100228								
Prep Date: 10/4/2023	Analysis Date: 10/4/2023	SeqNo: 3669493	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-77946	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 77946	RunNo: 100228								
Prep Date: 10/4/2023	Analysis Date: 10/4/2023	SeqNo: 3669494	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2309H61

11-Oct-23

Client: Vertex Resources Services, Inc.**Project:** Prometheus

Sample ID: LCS-77896	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 77896		RunNo: 100166							
Prep Date: 10/2/2023	Analysis Date: 10/3/2023		SeqNo: 3667641		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	10	50.00	0	123	61.9	130			
Surr: DNOP	6.1		5.000		122	69	147			

Sample ID: MB-77896	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 77896		RunNo: 100166							
Prep Date: 10/2/2023	Analysis Date: 10/3/2023		SeqNo: 3667643		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.5	69	147			

Sample ID: MB-77895	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 77895		RunNo: 100187							
Prep Date: 10/2/2023	Analysis Date: 10/3/2023		SeqNo: 3667657		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		118	69	147			

Sample ID: LCS-77895	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 77895		RunNo: 100187							
Prep Date: 10/2/2023	Analysis Date: 10/3/2023		SeqNo: 3667658		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	61.9	130			
Surr: DNOP	5.3		5.000		107	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2309H61

11-Oct-23

Client: Vertex Resources Services, Inc.**Project:** Prometheus

Sample ID: lcs-77886	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 77886				RunNo: 100169					
Prep Date: 10/2/2023	Analysis Date: 10/3/2023				SeqNo: 3667273	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.3	70	130			
Surr: BFB	2300		1000		229	15	244			

Sample ID: mb-77886	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 77886				RunNo: 100169					
Prep Date: 10/2/2023	Analysis Date: 10/3/2023				SeqNo: 3667275	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	15	244			

Sample ID: lcs-77889	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 77889				RunNo: 100206					
Prep Date: 10/2/2023	Analysis Date: 10/4/2023				SeqNo: 3669113	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.6	70	130			
Surr: BFB	1900		1000		193	15	244			

Sample ID: mb-77889	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 77889				RunNo: 100206					
Prep Date: 10/2/2023	Analysis Date: 10/4/2023				SeqNo: 3669115	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.3	15	244			

Sample ID: 2309h61-002ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BS23-02 4'	Batch ID: 77889				RunNo: 100206					
Prep Date: 10/2/2023	Analysis Date: 10/4/2023				SeqNo: 3669187	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.41	0	98.0	70	130			
Surr: BFB	1900		976.6		198	15	244			

Sample ID: 2309h61-002amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BS23-02 4'	Batch ID: 77889				RunNo: 100206					
Prep Date: 10/2/2023	Analysis Date: 10/4/2023				SeqNo: 3669190	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309H61
11-Oct-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: 2309h61-002amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BS23-02 4'		Batch ID: 77889			RunNo: 100206					
Prep Date: 10/2/2023		Analysis Date: 10/4/2023			SeqNo: 3669190		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.44	0	97.0	70	130	0.887	20	
Surr: BFB	1900		977.5		199	15	244	0	0	

Sample ID: lcs-77917		SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS		Batch ID: 77917			RunNo: 100246					
Prep Date: 10/3/2023		Analysis Date: 10/5/2023			SeqNo: 3671342		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		221	15	244			

Sample ID: mb-77917		SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS		Batch ID: 77917			RunNo: 100246					
Prep Date: 10/3/2023		Analysis Date: 10/5/2023			SeqNo: 3671345		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		98.6	15	244			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309H61

11-Oct-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-77889	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 77889	RunNo: 100206								
Prep Date: 10/2/2023	Analysis Date: 10/4/2023	SeqNo: 3669239	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	70	130			
Toluene	1.0	0.050	1.000	0	103	70	130			
Ethylbenzene	1.0	0.050	1.000	0	104	70	130			
Xylenes, Total	3.1	0.10	3.000	0	104	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: mb-77889	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 77889	RunNo: 100206								
Prep Date: 10/2/2023	Analysis Date: 10/4/2023	SeqNo: 3669240	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: 2309h61-003ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-03 4'	Batch ID: 77889	RunNo: 100206								
Prep Date: 10/2/2023	Analysis Date: 10/4/2023	SeqNo: 3669252	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.024	0.9542	0	103	70	130			
Toluene	1.0	0.048	0.9542	0	105	70	130			
Ethylbenzene	0.99	0.048	0.9542	0	104	70	130			
Xylenes, Total	3.0	0.095	2.863	0	105	70	130			
Surr: 4-Bromofluorobenzene	0.96		0.9542		101	39.1	146			

Sample ID: 2309h61-003amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-03 4'	Batch ID: 77889	RunNo: 100206								
Prep Date: 10/2/2023	Analysis Date: 10/4/2023	SeqNo: 3669253	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9551	0	103	70	130	0.183	20	
Toluene	1.0	0.048	0.9551	0	105	70	130	0.373	20	
Ethylbenzene	1.0	0.048	0.9551	0	106	70	130	1.54	20	
Xylenes, Total	3.0	0.096	2.865	0	106	70	130	0.899	20	
Surr: 4-Bromofluorobenzene	0.97		0.9551		102	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309H61

11-Oct-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: ics-77886	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 77886			RunNo: 100246						
Prep Date: 10/2/2023	Analysis Date: 10/5/2023			SeqNo: 3671285		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.3	70	130			
Toluene	0.91	0.050	1.000	0	90.6	70	130			
Ethylbenzene	0.92	0.050	1.000	0	92.4	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.4	70	130			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.4	39.1	146			

Sample ID: mb-77886	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 77886			RunNo: 100246						
Prep Date: 10/2/2023	Analysis Date: 10/5/2023			SeqNo: 3671286		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		90.6	39.1	146			

Sample ID: ics-77917	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 77917			RunNo: 100246						
Prep Date: 10/3/2023	Analysis Date: 10/5/2023			SeqNo: 3671299		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.91		1.000		91.2	39.1	146			

Sample ID: mb-77917	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 77917			RunNo: 100246						
Prep Date: 10/3/2023	Analysis Date: 10/5/2023			SeqNo: 3671300		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		88.2	39.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2309H61 RcptNo: 1

Received By: Tracy Casarrubias 9/30/2023 8:10:00 AM

Completed By: Tracy Casarrubias 9/30/2023 8:52:47 AM

Reviewed By: *TM 10/2/23*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: *(crossed out)*
(<2 or >12 unless noted)
Adjusted? *(crossed out)*
Checked by: *TMC 9/30/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: Mailing address, phone number and Email/Fax are missing on COC- TMC 9/30/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Vertex

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☒ Rush 72 hr TAT

Project Name:
Prometheus

Project #:
23E-03329

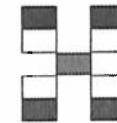
Project Manager:
Michael Moffit

Sampler: SPC

On Ice: ☒ Yes ☐ No yes

of Coolers: 1

Cooler Temp (including CF): 3.0 ± 0.1 = 3.1 (°C)

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX	MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
09/23/2023	08:50	Soil	BS23-01 4	402:15ar	ICE	001	X	X						X			
	08:55		BS23-02 4			002											
	09:00		BS23-03 4			003											
	09:00		BS23-04 4			004											
	09:05		BS23-05 4			005											
	09:10		BS23-06 4			006											
	09:10		BS23-07 4			007											
	09:13		BS23-08 4			008											
	09:15		BS23-09 4			009											
✓	09:20	✓	BS23-10 4	✓	✓	010	✓	✓						✓			
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	Remarks: CC: Scastror@vertex.ca ACastro@vertex.ca										
09/23/2023	17:15	Clr' Castro	Acumino		9/23/23	9:00											
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time											
9/23/23	19:00	Acumino		courier	9/30/23	8:10											

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 06, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2311C29

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 11/28/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311C29

Date Reported: 12/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-34 4'

Project: Prometheus

Collection Date: 11/17/2023 10:45:00 AM

Lab ID: 2311C29-001

Matrix: SOIL

Received Date: 11/28/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/30/2023 4:26:18 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/30/2023 4:26:18 PM
Surr: DNOP	86.4	69-147		%Rec	1	11/30/2023 4:26:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/29/2023 2:06:00 PM
Surr: BFB	98.2	15-244		%Rec	1	11/29/2023 2:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/29/2023 2:06:00 PM
Toluene	ND	0.048		mg/Kg	1	11/29/2023 2:06:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/29/2023 2:06:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/29/2023 2:06:00 PM
Surr: 4-Bromofluorobenzene	95.4	39.1-146		%Rec	1	11/29/2023 2:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	570	60		mg/Kg	20	11/30/2023 4:51:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311C29

Date Reported: 12/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-116 4'

Project: Prometheus

Collection Date: 11/17/2023 11:15:00 AM

Lab ID: 2311C29-002

Matrix: SOIL

Received Date: 11/28/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/30/2023 4:37:02 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/30/2023 4:37:02 PM
Surr: DNOP	112	69-147		%Rec	1	11/30/2023 4:37:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/29/2023 2:27:00 PM
Surr: BFB	97.5	15-244		%Rec	1	11/29/2023 2:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	11/29/2023 2:27:00 PM
Toluene	ND	0.046		mg/Kg	1	11/29/2023 2:27:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/29/2023 2:27:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	11/29/2023 2:27:00 PM
Surr: 4-Bromofluorobenzene	91.9	39.1-146		%Rec	1	11/29/2023 2:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	830	60		mg/Kg	20	11/30/2023 5:03:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 2 of 9

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311C29
Date Reported: 12/6/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-117 4'
Project: Prometheus Collection Date: 11/17/2023 11:15:00 AM
Lab ID: 2311C29-003 Matrix: SOIL Received Date: 11/28/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	11/30/2023 4:47:47 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/30/2023 4:47:47 PM
Surr: DNOP	111	69-147		%Rec	1	11/30/2023 4:47:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/29/2023 2:49:00 PM
Surr: BFB	99.2	15-244		%Rec	1	11/29/2023 2:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/29/2023 2:49:00 PM
Toluene	ND	0.049		mg/Kg	1	11/29/2023 2:49:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/29/2023 2:49:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/29/2023 2:49:00 PM
Surr: 4-Bromofluorobenzene	93.7	39.1-146		%Rec	1	11/29/2023 2:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	600	60		mg/Kg	20	11/30/2023 5:16:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311C29

Date Reported: 12/6/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-118 4'
Project: Prometheus Collection Date: 11/17/2023 11:20:00 AM
Lab ID: 2311C29-004 Matrix: SOIL Received Date: 11/28/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/30/2023 4:58:29 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/30/2023 4:58:29 PM
Surr: DNOP	87.9	69-147		%Rec	1	11/30/2023 4:58:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/29/2023 3:11:00 PM
Surr: BFB	104	15-244		%Rec	1	11/29/2023 3:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/29/2023 3:11:00 PM
Toluene	ND	0.048		mg/Kg	1	11/29/2023 3:11:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/29/2023 3:11:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/29/2023 3:11:00 PM
Surr: 4-Bromofluorobenzene	96.2	39.1-146		%Rec	1	11/29/2023 3:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	780	60		mg/Kg	20	11/30/2023 5:28:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311C29

Date Reported: 12/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-119 4'

Project: Prometheus

Collection Date: 11/17/2023 11:20:00 AM

Lab ID: 2311C29-005

Matrix: SOIL

Received Date: 11/28/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	11/30/2023 5:09:21 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/30/2023 5:09:21 PM
Surr: DNOP	112	69-147		%Rec	1	11/30/2023 5:09:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/29/2023 3:33:00 PM
Surr: BFB	101	15-244		%Rec	1	11/29/2023 3:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/29/2023 3:33:00 PM
Toluene	ND	0.048		mg/Kg	1	11/29/2023 3:33:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/29/2023 3:33:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/29/2023 3:33:00 PM
Surr: 4-Bromofluorobenzene	95.1	39.1-146		%Rec	1	11/29/2023 3:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	330	60		mg/Kg	20	11/30/2023 5:40:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311C29

06-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-79058	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 79058	RunNo: 101523								
Prep Date: 11/29/2023	Analysis Date: 11/30/2023	SeqNo: 3737381		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79058	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 79058	RunNo: 101523								
Prep Date: 11/29/2023	Analysis Date: 11/30/2023	SeqNo: 3737382		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311C29

06-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-79059	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79059	RunNo: 101517								
Prep Date: 11/29/2023	Analysis Date: 11/30/2023	SeqNo: 3736831	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	103	61.9	130			
Surr: DNOP	4.8		5.000		95.2	69	147			

Sample ID: MB-79059	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79059	RunNo: 101517								
Prep Date: 11/29/2023	Analysis Date: 11/30/2023	SeqNo: 3736834	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.5	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311C29

06-Dec-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: Ics-79020	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 79020	RunNo: 101489								
Prep Date: 11/28/2023	Analysis Date: 11/29/2023	SeqNo: 3735681		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.6	70	130			
Surr: BFB	2100		1000		206	15	244			

Sample ID: MB-79020	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 79020	RunNo: 101489								
Prep Date: 11/28/2023	Analysis Date: 11/29/2023	SeqNo: 3735682		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	15	244			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311C29

06-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: Ics-79020	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 79020	RunNo: 101489								
Prep Date: 11/28/2023	Analysis Date: 11/29/2023	SeqNo: 3735824	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.8	70	130			
Toluene	0.96	0.050	1.000	0	96.0	70	130			
Ethylbenzene	0.97	0.050	1.000	0	97.5	70	130			
Xylenes, Total	2.9	0.10	3.000	0	96.9	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	39.1	146			

Sample ID: mb-79020	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 79020	RunNo: 101489								
Prep Date: 11/28/2023	Analysis Date: 11/29/2023	SeqNo: 3735825	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Sample Log-In Check List

Client Name: Vertex Resources Work Order Number: 2311C29 RcptNo: 1

Received By: Juan Rojas 11/28/2023 7:40:00 AM *Juan Rojas*

Completed By: Tracy Casarrubias 11/28/2023 8:24:37 AM

Reviewed By: *ju 11/28/23*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

*scm 11/28/23*Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions: Mailing address, phone number and Email/Fax are missing on COC- TMC 11/28/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes	Morty		



Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 14, 2023

Kent Stallings
Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL: (505) 506-0040
FAX:

RE: Prometheus

OrderNo.: 2311066

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 28 sample(s) on 11/2/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-39 0-4'

Project: Prometheus

Collection Date: 10/31/2023 10:00:00 AM

Lab ID: 2311066-001

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/3/2023 12:27:27 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 12:27:27 PM
Surr: DNOP	99.7	69-147		%Rec	1	11/3/2023 12:27:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2023 12:25:00 PM
Surr: BFB	103	15-244		%Rec	1	11/4/2023 12:25:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/4/2023 12:25:00 PM
Toluene	ND	0.050		mg/Kg	1	11/4/2023 12:25:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2023 12:25:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2023 12:25:00 PM
Surr: 4-Bromofluorobenzene	89.3	39.1-146		%Rec	1	11/4/2023 12:25:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	79	60		mg/Kg	20	11/6/2023 2:33:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-40 0-4'

Project: Prometheus

Collection Date: 10/31/2023 10:00:00 AM

Lab ID: 2311066-002

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/3/2023 12:38:08 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 12:38:08 PM
Surr: DNOP	104	69-147		%Rec	1	11/3/2023 12:38:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2023 1:30:00 PM
Surr: BFB	103	15-244		%Rec	1	11/4/2023 1:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/4/2023 1:30:00 PM
Toluene	ND	0.049		mg/Kg	1	11/4/2023 1:30:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2023 1:30:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/4/2023 1:30:00 PM
Surr: 4-Bromofluorobenzene	90.0	39.1-146		%Rec	1	11/4/2023 1:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	83	60		mg/Kg	20	11/6/2023 3:10:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311066
Date Reported: 11/14/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-41 0-4'
Project: Prometheus Collection Date: 10/31/2023 10:00:00 AM
Lab ID: 2311066-003 Matrix: SOIL Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/3/2023 12:48:50 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2023 12:48:50 PM
Surr: DNOP	103	69-147		%Rec	1	11/3/2023 12:48:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2023 1:52:00 PM
Surr: BFB	100	15-244		%Rec	1	11/4/2023 1:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/4/2023 1:52:00 PM
Toluene	ND	0.047		mg/Kg	1	11/4/2023 1:52:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2023 1:52:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/4/2023 1:52:00 PM
Surr: 4-Bromofluorobenzene	88.7	39.1-146		%Rec	1	11/4/2023 1:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	110	60		mg/Kg	20	11/6/2023 3:47:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-42 0-4'

Project: Prometheus

Collection Date: 10/31/2023 10:05:00 AM

Lab ID: 2311066-004

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/3/2023 12:59:29 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 12:59:29 PM
Surr: DNOP	99.5	69-147		%Rec	1	11/3/2023 12:59:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2023 2:14:00 PM
Surr: BFB	102	15-244		%Rec	1	11/4/2023 2:14:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/4/2023 2:14:00 PM
Toluene	ND	0.047		mg/Kg	1	11/4/2023 2:14:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2023 2:14:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/4/2023 2:14:00 PM
Surr: 4-Bromofluorobenzene	87.9	39.1-146		%Rec	1	11/4/2023 2:14:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	11/6/2023 3:59:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-43 0-4'

Project: Prometheus

Collection Date: 10/31/2023 1:55:00 PM

Lab ID: 2311066-005

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/3/2023 1:10:11 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 1:10:11 PM
Surr: DNOP	101	69-147		%Rec	1	11/3/2023 1:10:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 2:35:00 PM
Surr: BFB	99.8	15-244		%Rec	1	11/4/2023 2:35:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/4/2023 2:35:00 PM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 2:35:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 2:35:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/4/2023 2:35:00 PM
Surr: 4-Bromofluorobenzene	86.8	39.1-146		%Rec	1	11/4/2023 2:35:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	180	60		mg/Kg	20	11/6/2023 4:12:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-65 0-4'

Project: Prometheus

Collection Date: 10/31/2023 10:05:00 AM

Lab ID: 2311066-006

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/3/2023 1:20:52 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 1:20:52 PM
Surr: DNOP	99.2	69-147		%Rec	1	11/3/2023 1:20:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 2:57:00 PM
Surr: BFB	105	15-244		%Rec	1	11/4/2023 2:57:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/4/2023 2:57:00 PM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 2:57:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 2:57:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/4/2023 2:57:00 PM
Surr: 4-Bromofluorobenzene	86.8	39.1-146		%Rec	1	11/4/2023 2:57:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	11/6/2023 4:24:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-66 0-4'

Project: Prometheus

Collection Date: 10/31/2023 10:05:00 AM

Lab ID: 2311066-007

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/3/2023 1:42:15 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2023 1:42:15 PM
Surr: DNOP	101	69-147		%Rec	1	11/3/2023 1:42:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2023 3:19:00 PM
Surr: BFB	102	15-244		%Rec	1	11/4/2023 3:19:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/4/2023 3:19:00 PM
Toluene	ND	0.047		mg/Kg	1	11/4/2023 3:19:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2023 3:19:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/4/2023 3:19:00 PM
Surr: 4-Bromofluorobenzene	85.3	39.1-146		%Rec	1	11/4/2023 3:19:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	63	60		mg/Kg	20	11/6/2023 5:01:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-67 0-4'

Project: Prometheus

Collection Date: 10/31/2023 3:05:00 PM

Lab ID: 2311066-008

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/3/2023 1:53:02 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 1:53:02 PM
Surr: DNOP	103	69-147		%Rec	1	11/3/2023 1:53:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/4/2023 3:41:00 PM
Surr: BFB	99.7	15-244		%Rec	1	11/4/2023 3:41:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	11/4/2023 3:41:00 PM
Toluene	ND	0.046		mg/Kg	1	11/4/2023 3:41:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/4/2023 3:41:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	11/4/2023 3:41:00 PM
Surr: 4-Bromofluorobenzene	85.3	39.1-146		%Rec	1	11/4/2023 3:41:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	120	60		mg/Kg	20	11/6/2023 5:14:22 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-84 4'

Project: Prometheus

Collection Date: 10/31/2023 3:00:00 PM

Lab ID: 2311066-009

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/3/2023 2:03:46 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 2:03:46 PM
Surr: DNOP	103	69-147		%Rec	1	11/3/2023 2:03:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 4:02:00 PM
Surr: BFB	105	15-244		%Rec	1	11/4/2023 4:02:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/4/2023 4:02:00 PM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 4:02:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 4:02:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/4/2023 4:02:00 PM
Surr: 4-Bromofluorobenzene	88.3	39.1-146		%Rec	1	11/4/2023 4:02:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	510	60		mg/Kg	20	11/6/2023 5:26:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-85 4'

Project: Prometheus

Collection Date: 10/31/2023 3:00:00 PM

Lab ID: 2311066-010

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/3/2023 2:14:34 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 2:14:34 PM
Surr: DNOP	105	69-147		%Rec	1	11/3/2023 2:14:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/4/2023 4:46:00 PM
Surr: BFB	107	15-244		%Rec	1	11/4/2023 4:46:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	11/4/2023 4:46:00 PM
Toluene	ND	0.046		mg/Kg	1	11/4/2023 4:46:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/4/2023 4:46:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	11/4/2023 4:46:00 PM
Surr: 4-Bromofluorobenzene	91.3	39.1-146		%Rec	1	11/4/2023 4:46:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	550	60		mg/Kg	20	11/6/2023 5:39:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-86 4'

Project: Prometheus

Collection Date: 10/31/2023 2:55:00 PM

Lab ID: 2311066-011

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/3/2023 2:25:24 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/3/2023 2:25:24 PM
Surr: DNOP	106	69-147		%Rec	1	11/3/2023 2:25:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2023 5:08:00 PM
Surr: BFB	106	15-244		%Rec	1	11/4/2023 5:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/4/2023 5:08:00 PM
Toluene	ND	0.047		mg/Kg	1	11/4/2023 5:08:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2023 5:08:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/4/2023 5:08:00 PM
Surr: 4-Bromofluorobenzene	89.8	39.1-146		%Rec	1	11/4/2023 5:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	200	60		mg/Kg	20	11/6/2023 5:51:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311066
Date Reported: 11/14/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-87 4'
Project: Prometheus Collection Date: 10/31/2023 2:50:00 PM
Lab ID: 2311066-012 Matrix: SOIL Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/3/2023 2:36:16 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 2:36:16 PM
Surr: DNOP	108	69-147		%Rec	1	11/3/2023 2:36:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2023 5:29:00 PM
Surr: BFB	105	15-244		%Rec	1	11/4/2023 5:29:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/4/2023 5:29:00 PM
Toluene	ND	0.049		mg/Kg	1	11/4/2023 5:29:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2023 5:29:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/4/2023 5:29:00 PM
Surr: 4-Bromofluorobenzene	88.0	39.1-146		%Rec	1	11/4/2023 5:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	670	60		mg/Kg	20	11/6/2023 6:04:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-88 4'

Project: Prometheus

Collection Date: 10/31/2023 2:50:00 PM

Lab ID: 2311066-013

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/3/2023 2:47:09 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/3/2023 2:47:09 PM
Surr: DNOP	118	69-147		%Rec	1	11/3/2023 2:47:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2023 5:51:00 PM
Surr: BFB	102	15-244		%Rec	1	11/4/2023 5:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/4/2023 5:51:00 PM
Toluene	ND	0.050		mg/Kg	1	11/4/2023 5:51:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2023 5:51:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2023 5:51:00 PM
Surr: 4-Bromofluorobenzene	89.7	39.1-146		%Rec	1	11/4/2023 5:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1500	60		mg/Kg	20	11/6/2023 6:16:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-89 4'

Project: Prometheus

Collection Date: 10/31/2023 2:45:00 PM

Lab ID: 2311066-014

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/3/2023 2:58:10 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2023 2:58:10 PM
Surr: DNOP	114	69-147		%Rec	1	11/3/2023 2:58:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2023 6:13:00 PM
Surr: BFB	107	15-244		%Rec	1	11/4/2023 6:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/4/2023 6:13:00 PM
Toluene	ND	0.049		mg/Kg	1	11/4/2023 6:13:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2023 6:13:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/4/2023 6:13:00 PM
Surr: 4-Bromofluorobenzene	89.6	39.1-146		%Rec	1	11/4/2023 6:13:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	2100	60		mg/Kg	20	11/6/2023 6:28:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-90 4'

Project: Prometheus

Collection Date: 10/31/2023 2:45:00 PM

Lab ID: 2311066-015

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/3/2023 3:09:12 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 3:09:12 PM
Surr: DNOP	108	69-147		%Rec	1	11/3/2023 3:09:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 6:34:00 PM
Surr: BFB	101	15-244		%Rec	1	11/4/2023 6:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/4/2023 6:34:00 PM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 6:34:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 6:34:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/4/2023 6:34:00 PM
Surr: 4-Bromofluorobenzene	86.0	39.1-146		%Rec	1	11/4/2023 6:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1200	60		mg/Kg	20	11/6/2023 6:41:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-91 4'

Project: Prometheus

Collection Date: 10/31/2023 2:00:00 PM

Lab ID: 2311066-016

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/3/2023 3:20:11 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 3:20:11 PM
Surr: DNOP	111	69-147		%Rec	1	11/3/2023 3:20:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2023 6:56:00 PM
Surr: BFB	101	15-244		%Rec	1	11/4/2023 6:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/4/2023 6:56:00 PM
Toluene	ND	0.050		mg/Kg	1	11/4/2023 6:56:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2023 6:56:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/4/2023 6:56:00 PM
Surr: 4-Bromofluorobenzene	86.4	39.1-146		%Rec	1	11/4/2023 6:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1700	60		mg/Kg	20	11/6/2023 6:53:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311066
Date Reported: 11/14/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-92 4'
Project: Prometheus Collection Date: 10/31/2023 12:20:00 PM
Lab ID: 2311066-017 Matrix: SOIL Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/3/2023 3:31:13 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2023 3:31:13 PM
Surr: DNOP	114	69-147		%Rec	1	11/3/2023 3:31:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2023 7:18:00 PM
Surr: BFB	102	15-244		%Rec	1	11/4/2023 7:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	11/4/2023 7:18:00 PM
Toluene	ND	0.047		mg/Kg	1	11/4/2023 7:18:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2023 7:18:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	11/4/2023 7:18:00 PM
Surr: 4-Bromofluorobenzene	87.3	39.1-146		%Rec	1	11/4/2023 7:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	960	60		mg/Kg	20	11/6/2023 7:30:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-93 4'

Project: Prometheus

Collection Date: 10/31/2023 12:15:00 PM

Lab ID: 2311066-018

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/3/2023 3:42:11 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 3:42:11 PM
Surr: DNOP	107	69-147		%Rec	1	11/3/2023 3:42:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 7:40:00 PM
Surr: BFB	102	15-244		%Rec	1	11/4/2023 7:40:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/4/2023 7:40:00 PM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 7:40:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 7:40:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/4/2023 7:40:00 PM
Surr: 4-Bromofluorobenzene	87.2	39.1-146		%Rec	1	11/4/2023 7:40:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	870	60		mg/Kg	20	11/6/2023 7:43:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-94 4'

Project: Prometheus

Collection Date: 10/31/2023 12:05:00 PM

Lab ID: 2311066-019

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/3/2023 3:53:12 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 3:53:12 PM
Surr: DNOP	116	69-147		%Rec	1	11/3/2023 3:53:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2023 8:01:00 PM
Surr: BFB	104	15-244		%Rec	1	11/4/2023 8:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/4/2023 8:01:00 PM
Toluene	ND	0.050		mg/Kg	1	11/4/2023 8:01:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2023 8:01:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2023 8:01:00 PM
Surr: 4-Bromofluorobenzene	86.2	39.1-146		%Rec	1	11/4/2023 8:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	2200	60		mg/Kg	20	11/6/2023 7:55:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-95 4'

Project: Prometheus

Collection Date: 10/31/2023 12:00:00 PM

Lab ID: 2311066-020

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/3/2023 8:49:59 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2023 8:49:59 PM
Surr: DNOP	94.6	69-147		%Rec	1	11/3/2023 8:49:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/6/2023 11:32:32 AM
Surr: BFB	94.4	15-244		%Rec	1	11/6/2023 11:32:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/6/2023 11:32:32 AM
Toluene	ND	0.048		mg/Kg	1	11/6/2023 11:32:32 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/6/2023 11:32:32 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/6/2023 11:32:32 AM
Surr: 4-Bromofluorobenzene	99.0	39.1-146		%Rec	1	11/6/2023 11:32:32 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	3800	150		mg/Kg	50	11/7/2023 1:38:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-96 4'

Project: Prometheus

Collection Date: 10/31/2023 12:00:00 PM

Lab ID: 2311066-021

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/4/2023 1:29:21 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/4/2023 1:29:21 AM
Surr: DNOP	96.2	69-147		%Rec	1	11/4/2023 1:29:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 10:12:00 PM
Surr: BFB	103	15-244		%Rec	1	11/4/2023 10:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/8/2023 1:58:00 AM
Toluene	ND	0.048		mg/Kg	1	11/8/2023 1:58:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/8/2023 1:58:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/8/2023 1:58:00 AM
Surr: 4-Bromofluorobenzene	86.9	39.1-146		%Rec	1	11/8/2023 1:58:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1700	60		mg/Kg	20	11/6/2023 3:08:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-97 4'

Project: Prometheus

Collection Date: 10/31/2023 12:05:00 PM

Lab ID: 2311066-022

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/4/2023 1:40:03 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/4/2023 1:40:03 AM
Surr: DNOP	95.7	69-147		%Rec	1	11/4/2023 1:40:03 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 11:17:00 PM
Surr: BFB	102	15-244		%Rec	1	11/4/2023 11:17:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	11/8/2023 3:03:00 AM
Toluene	ND	0.046		mg/Kg	1	11/8/2023 3:03:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/8/2023 3:03:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/8/2023 3:03:00 AM
Surr: 4-Bromofluorobenzene	87.8	39.1-146		%Rec	1	11/8/2023 3:03:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1300	60		mg/Kg	20	11/6/2023 3:20:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-98 4'

Project: Prometheus

Collection Date: 10/31/2023 12:15:00 PM

Lab ID: 2311066-023

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	11	9.7		mg/Kg	1	11/4/2023 1:50:42 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/4/2023 1:50:42 AM
Surr: DNOP	99.7	69-147		%Rec	1	11/4/2023 1:50:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/5/2023 12:22:00 AM
Surr: BFB	103	15-244		%Rec	1	11/5/2023 12:22:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/8/2023 3:25:00 AM
Toluene	ND	0.049		mg/Kg	1	11/8/2023 3:25:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2023 3:25:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/8/2023 3:25:00 AM
Surr: 4-Bromofluorobenzene	87.0	39.1-146		%Rec	1	11/8/2023 3:25:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1600	60		mg/Kg	20	11/6/2023 3:32:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-99 4'

Project: Prometheus

Collection Date: 10/31/2023 12:20:00 PM

Lab ID: 2311066-024

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	10	9.6		mg/Kg	1	11/4/2023 2:01:20 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/4/2023 2:01:20 AM
Surr: DNOP	99.7	69-147		%Rec	1	11/4/2023 2:01:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/5/2023 12:44:00 AM
Surr: BFB	103	15-244		%Rec	1	11/5/2023 12:44:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/8/2023 3:46:00 AM
Toluene	ND	0.050		mg/Kg	1	11/8/2023 3:46:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/8/2023 3:46:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/8/2023 3:46:00 AM
Surr: 4-Bromofluorobenzene	84.9	39.1-146		%Rec	1	11/8/2023 3:46:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	2100	60		mg/Kg	20	11/6/2023 3:45:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-100 4'

Project: Prometheus

Collection Date: 10/31/2023 12:10:00 PM

Lab ID: 2311066-025

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	11	9.3		mg/Kg	1	11/4/2023 2:11:57 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/4/2023 2:11:57 AM
Surr: DNOP	101	69-147		%Rec	1	11/4/2023 2:11:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/5/2023 1:06:00 AM
Surr: BFB	103	15-244		%Rec	1	11/5/2023 1:06:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/8/2023 4:08:00 AM
Toluene	ND	0.048		mg/Kg	1	11/8/2023 4:08:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/8/2023 4:08:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/8/2023 4:08:00 AM
Surr: 4-Bromofluorobenzene	82.0	39.1-146		%Rec	1	11/8/2023 4:08:00 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1500	60		mg/Kg	20	11/6/2023 8:20:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-101 4'

Project: Prometheus

Collection Date: 10/31/2023 2:40:00 PM

Lab ID: 2311066-026

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	11	9.9		mg/Kg	1	11/4/2023 2:22:33 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/4/2023 2:22:33 AM
Surr: DNOP	100	69-147		%Rec	1	11/4/2023 2:22:33 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2023 1:27:00 AM
Surr: BFB	103	15-244		%Rec	1	11/5/2023 1:27:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/8/2023 4:30:00 AM
Toluene	ND	0.049		mg/Kg	1	11/8/2023 4:30:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2023 4:30:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/8/2023 4:30:00 AM
Surr: 4-Bromofluorobenzene	86.4	39.1-146		%Rec	1	11/8/2023 4:30:00 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1200	60		mg/Kg	20	11/6/2023 8:32:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-102 4'

Project: Prometheus

Collection Date: 10/31/2023 2:55:00 PM

Lab ID: 2311066-027

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	10	9.7		mg/Kg	1	11/4/2023 2:33:07 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/4/2023 2:33:07 AM
Surr: DNOP	102	69-147		%Rec	1	11/4/2023 2:33:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2023 1:49:00 AM
Surr: BFB	103	15-244		%Rec	1	11/5/2023 1:49:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/8/2023 4:52:00 AM
Toluene	ND	0.048		mg/Kg	1	11/8/2023 4:52:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/8/2023 4:52:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/8/2023 4:52:00 AM
Surr: 4-Bromofluorobenzene	84.1	39.1-146		%Rec	1	11/8/2023 4:52:00 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1300	60		mg/Kg	20	11/6/2023 8:45:22 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311066

Date Reported: 11/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-103 4'

Project: Prometheus

Collection Date: 10/31/2023 3:05:00 PM

Lab ID: 2311066-028

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	9.3	9.1		mg/Kg	1	11/4/2023 2:43:42 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/4/2023 2:43:42 AM
Surr: DNOP	102	69-147		%Rec	1	11/4/2023 2:43:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2023 2:11:00 AM
Surr: BFB	100	15-244		%Rec	1	11/5/2023 2:11:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/8/2023 5:13:00 AM
Toluene	ND	0.047		mg/Kg	1	11/8/2023 5:13:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/8/2023 5:13:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/8/2023 5:13:00 AM
Surr: 4-Bromofluorobenzene	85.7	39.1-146		%Rec	1	11/8/2023 5:13:00 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	250	60		mg/Kg	20	11/6/2023 8:57:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311066

14-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78590	SampType: mblk			TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 78590			RunNo: 100981						
Prep Date: 11/6/2023	Analysis Date: 11/6/2023			SeqNo: 3706462		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78590	SampType: lcs			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 78590			RunNo: 100981						
Prep Date: 11/6/2023	Analysis Date: 11/6/2023			SeqNo: 3706463		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.2	90	110			

Sample ID: MB-78583	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 78583			RunNo: 100987						
Prep Date: 11/6/2023	Analysis Date: 11/6/2023			SeqNo: 3706678		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78583	SampType: LCS			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 78583			RunNo: 100987						
Prep Date: 11/6/2023	Analysis Date: 11/6/2023			SeqNo: 3706679		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2311066

14-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Prometheus

Sample ID: LCS-78534	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 78534		RunNo: 100940							
Prep Date: 11/2/2023	Analysis Date: 11/3/2023		SeqNo: 3704561		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.7	61.9	130			
Surr: DNOP	5.5		5.000		111	69	147			

Sample ID: MB-78534	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 78534		RunNo: 100940							
Prep Date: 11/2/2023	Analysis Date: 11/3/2023		SeqNo: 3704563		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.0	69	147			

Sample ID: 2311066-019AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BS23-94 4'	Batch ID: 78534		RunNo: 100940							
Prep Date: 11/2/2023	Analysis Date: 11/3/2023		SeqNo: 3704982		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.4	47.17	8.414	71.9	54.2	135			
Surr: DNOP	6.0		4.717		127	69	147			

Sample ID: 2311066-019AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BS23-94 4'	Batch ID: 78534		RunNo: 100940							
Prep Date: 11/2/2023	Analysis Date: 11/3/2023		SeqNo: 3704983		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.3	46.69	8.414	71.0	54.2	135	1.84	29.2	
Surr: DNOP	5.7		4.669		122	69	147	0	0	

Sample ID: 2311066-020AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BS23-95 4'	Batch ID: 78541		RunNo: 100940							
Prep Date: 11/2/2023	Analysis Date: 11/3/2023		SeqNo: 3704985		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.6	47.98	8.648	67.9	54.2	135			
Surr: DNOP	5.5		4.798		114	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311066

14-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2311066-020AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-95 4'	Batch ID: 78541	RunNo: 100940								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3704986 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	8.648	73.2	54.2	135	9.38	29.2	
Surr: DNOP	5.9		5.000		117	69	147	0	0	

Sample ID: LCS-78541	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78541	RunNo: 100940								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3705011 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	65	10	50.00	0	130	61.9	130			
Surr: DNOP	8.7		5.000		174	69	147			S

Sample ID: LCS-78561	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78561	RunNo: 100940								
Prep Date: 11/3/2023	Analysis Date: 11/4/2023	SeqNo: 3705013 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.1	61.9	130			
Surr: DNOP	5.5		5.000		111	69	147			

Sample ID: MB-78541	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78541	RunNo: 100940								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3705015 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	14		10.00		140	69	147			

Sample ID: MB-78561	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78561	RunNo: 100940								
Prep Date: 11/3/2023	Analysis Date: 11/4/2023	SeqNo: 3705017 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.2	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311066

14-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78524	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78524			RunNo: 100953						
Prep Date: 11/2/2023	Analysis Date: 11/4/2023			SeqNo: 3705183		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.6	70	130			
Surr: BFB	2200		1000		221	15	244			

Sample ID: mb-78524	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78524			RunNo: 100953						
Prep Date: 11/2/2023	Analysis Date: 11/4/2023			SeqNo: 3705184		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	15	244			

Sample ID: lcs-78539	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78539			RunNo: 100953						
Prep Date: 11/2/2023	Analysis Date: 11/4/2023			SeqNo: 3705207		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.8	70	130			
Surr: BFB	2200		1000		222	15	244			

Sample ID: mb-78539	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78539			RunNo: 100953						
Prep Date: 11/2/2023	Analysis Date: 11/4/2023			SeqNo: 3705208		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	15	244			

Sample ID: 2311066-021ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS23-96 4'	Batch ID: 78539			RunNo: 100953						
Prep Date: 11/2/2023	Analysis Date: 11/4/2023			SeqNo: 3705210		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.37	0	91.7	70	130			
Surr: BFB	2200		974.7		222	15	244			

Sample ID: 2311066-021amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS23-96 4'	Batch ID: 78539			RunNo: 100953						
Prep Date: 11/2/2023	Analysis Date: 11/4/2023			SeqNo: 3705211		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.37	0	91.7	70	130			
Surr: BFB	2200		974.7		222	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311066

14-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2311066-021amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BS23-96 4'	Batch ID: 78539	RunNo: 100953								
Prep Date: 11/2/2023	Analysis Date: 11/4/2023	SeqNo: 3705211		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.39	0	87.1	70	130	5.05	20	
Surr: BFB	2200		975.6		222	15	244	0	0	

Sample ID: lcs-78537	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 78537	RunNo: 100984								
Prep Date: 11/2/2023	Analysis Date: 11/6/2023	SeqNo: 3706498		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	70	130			
Surr: BFB	2000		1000		202	15	244			

Sample ID: mb-78537	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 78537	RunNo: 100984								
Prep Date: 11/2/2023	Analysis Date: 11/6/2023	SeqNo: 3706500		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	15	244			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311066

14-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78524	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78524		RunNo: 100953							
Prep Date: 11/2/2023	Analysis Date: 11/4/2023		SeqNo: 3705231		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.025	1.000	0	70.4	70	130			
Toluene	0.74	0.050	1.000	0	74.1	70	130			
Ethylbenzene	0.77	0.050	1.000	0	77.4	70	130			
Xylenes, Total	2.3	0.10	3.000	0	77.0	70	130			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.2	39.1	146			

Sample ID: mb-78524	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78524		RunNo: 100953							
Prep Date: 11/2/2023	Analysis Date: 11/4/2023		SeqNo: 3705232		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.3	39.1	146			

Sample ID: 2311066-001ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-39 0-4'	Batch ID: 78524		RunNo: 100953							
Prep Date: 11/2/2023	Analysis Date: 11/4/2023		SeqNo: 3705235		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.73	0.025	0.9921	0	73.2	70	130			
Toluene	0.77	0.050	0.9921	0	77.3	70	130			
Ethylbenzene	0.80	0.050	0.9921	0	80.7	70	130			
Xylenes, Total	2.4	0.099	2.976	0	80.3	70	130			
Surr: 4-Bromofluorobenzene	0.88		0.9921		88.6	39.1	146			

Sample ID: 2311066-001amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-39 0-4'	Batch ID: 78524		RunNo: 100953							
Prep Date: 11/2/2023	Analysis Date: 11/4/2023		SeqNo: 3705236		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.025	0.9911	0	72.2	70	130	1.38	20	
Toluene	0.76	0.050	0.9911	0	76.8	70	130	0.721	20	
Ethylbenzene	0.80	0.050	0.9911	0	80.5	70	130	0.249	20	
Xylenes, Total	2.4	0.099	2.973	0	80.8	70	130	0.546	20	
Surr: 4-Bromofluorobenzene	0.87		0.9911		88.0	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311066

14-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-78537	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78537		RunNo: 100984							
Prep Date: 11/2/2023	Analysis Date: 11/6/2023		SeqNo: 3706542		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.0	70	130			
Toluene	0.88	0.050	1.000	0	88.1	70	130			
Ethylbenzene	0.90	0.050	1.000	0	90.5	70	130			
Xylenes, Total	2.7	0.10	3.000	0	90.9	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: mb-78537	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78537		RunNo: 100984							
Prep Date: 11/2/2023	Analysis Date: 11/6/2023		SeqNo: 3706543		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	39.1	146			

Sample ID: lcs-78601	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78601		RunNo: 101017							
Prep Date: 11/6/2023	Analysis Date: 11/8/2023		SeqNo: 3708429		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	80.9	70	130			
Toluene	0.81	0.050	1.000	0	81.2	70	130			
Ethylbenzene	0.82	0.050	1.000	0	82.2	70	130			
Xylenes, Total	2.4	0.10	3.000	0	81.6	70	130			
Surr: 4-Bromofluorobenzene	0.85		1.000		84.9	39.1	146			

Sample ID: mb-78601	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78601		RunNo: 101017							
Prep Date: 11/6/2023	Analysis Date: 11/8/2023		SeqNo: 3708430		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311066

14-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2311066-021ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-96 4'	Batch ID: 78601	RunNo: 101017								
Prep Date: 11/6/2023	Analysis Date: 11/8/2023	SeqNo: 3708432	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.71	0.096	0.9597	0	74.4	70	130			
Benzene	0.82	0.024	0.9597	0	85.5	70	130			
Toluene	0.83	0.048	0.9597	0	86.8	70	130			
Ethylbenzene	0.86	0.048	0.9597	0	89.2	70	130			
Xylenes, Total	2.5	0.096	2.879	0	88.3	70	130			
Surr: 4-Bromofluorobenzene	0.80		0.9597		83.0	39.1	146			

Sample ID: 2311066-021amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-96 4'	Batch ID: 78601	RunNo: 101017								
Prep Date: 11/6/2023	Analysis Date: 11/8/2023	SeqNo: 3708433	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.024	0.9662	0	82.1	70	130	3.38	20	
Toluene	0.80	0.048	0.9662	0	82.9	70	130	3.95	20	
Ethylbenzene	0.82	0.048	0.9662	0	85.2	70	130	3.99	20	
Xylenes, Total	2.4	0.097	2.899	0	84.4	70	130	3.81	20	
Surr: 4-Bromofluorobenzene	0.82		0.9662		84.4	39.1	146	0	0	

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2311066

RcptNo: 1

Received By: Tracy Casarrubias 11/2/2023 7:45:00 AM

Completed By: Tracy Casarrubias 11/2/2023 7:56:09 AM

Reviewed By: *Tracy 11/2/23*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *SCM 11/2/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Mailing address, phone number and Email/Fax are missing on COC- TMC 11/2/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes	Yogi		

Chain-of-Custody Record

Client: **Vertex**

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☐ Standard ☒ Rush 72-hour rush

Project Name:

Prometheus

Project #:

23E-03329

Project Manager:

Kent Stallings

MMoffitt@vertex.ca

Sampler: L. Pullman

On Ice: ☒ Yes ☐ No 4oz# of Coolers: 1Cooler Temp (including CF): 3.9 - 0 - 3.9 °C

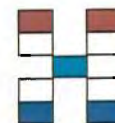
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
10/31/23	14:50	Soil	BS23-88 4'	1, 4oz jar		013
10/31/23	14:45	Soil	BS23-89 4'	1, 4oz jar		014
10/31/23	14:45	Soil	BS23-90 4'	1, 4oz jar		015
10/31/23	14:00	Soil	BS23-91 4'	1, 4oz jar		016
10/31/23	12:20	Soil	BS23-92 4'	1, 4oz jar		017
10/31/23	12:15	Soil	BS23-93 4'	1, 4oz jar		018
10/31/23	12:05	Soil	BS23-94 4'	1, 4oz jar		019
10/31/23	12:00	Soil	BS23-95 4'	1, 4oz jar		020
10/31/23	12:00	Soil	BS23-96 4'	1, 4oz jar		021
10/31/23	12:05	Soil	BS23-97 4'	1, 4oz jar		022
10/31/23	12:15	Soil	BS23-98 4'	1, 4oz jar		023
10/31/23	12:20	Soil	BS23-99 4'	1, 4oz jar		024

Received by: Via: Date Time

11/1/23 07:00 Adam 11/1/23 0700

Received by: Via: owner Date Time

11/1/23 1900 Adam 11/2/23 7:45



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)										
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													

Remarks:

Ace Fluid Solutions

cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report

2/3

If necessary, samples submitted to Hall Environmental may be sub-contracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Client: **Vertex**

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:	
<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush_72-hour rush
Project Name:	
Prometheus	
Project #:	
23E-03329	
Project Manager:	
Kent Stallings	
MMoffitt@vertex.ca	
Sampler:	
L. Pullman	
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 400g
# of Coolers:	1
Cooler Temp (including CF):	39-0 = 3.9 °C

Date	Time	Matrix	Sample Name	Cooler Temp(Including CF): 3.9-0 = 3.9 °C			BTEX / M	TPH:8015D	8081 Pesti	EDB (Meth)	PAHs by 8	RCRA 8 M	Cl, F, Br,	8260 (VOA)	8270 (Sem)	Total Colif					
				Container Type and #	Preservative Type	HEAL No.															
10/31/23	12:10	Soil	BS23-100 4'	1, 4oz jar		025	X	X					X								
10/31/23	14:40	Soil	BS23-101 4'	1, 4oz jar		026	X	X					X								
10/31/23	14:55	Soil	BS23-102 4'	1, 4oz jar		027	X	X					X								
10/31/23	15:05	Soil	BS23-103 4'	1, 4oz jar		028	X	X					X								
Date:	Time:	Relinquished by:	Received by: Via:			Date Time	Remarks:														
11-1-23	07:00	Sabin Ballin	[Signature]			11/1/23 0700	Ace Fluid Solutions cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report														
Date:	Time:	Relinquished by:	Received by: Via:			Date Time															
11/1/23	1900	[Signature]	[Signature] Via: [Signature]			11/2/23 7:45															

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 22, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2311545

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 4 sample(s) on 11/10/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311545

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-53 4'

Project: Prometheus

Collection Date: 11/8/2023 12:15:00 PM

Lab ID: 2311545-001

Matrix: SOIL

Received Date: 11/10/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/15/2023 10:52:17 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/15/2023 10:52:17 AM
Surr: DNOP	85.6	69-147		%Rec	1	11/15/2023 10:52:17 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/15/2023 3:03:30 AM
Surr: BFB	90.1	15-244		%Rec	1	11/15/2023 3:03:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/15/2023 3:03:30 AM
Toluene	ND	0.048		mg/Kg	1	11/15/2023 3:03:30 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/15/2023 3:03:30 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/15/2023 3:03:30 AM
Surr: 4-Bromofluorobenzene	94.0	39.1-146		%Rec	1	11/15/2023 3:03:30 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	490	60		mg/Kg	20	11/15/2023 10:26:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311545

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-54 4'

Project: Prometheus

Collection Date: 11/8/2023 12:10:00 PM

Lab ID: 2311545-002

Matrix: SOIL

Received Date: 11/10/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/15/2023 11:02:46 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/15/2023 11:02:46 AM
Surr: DNOP	85.2	69-147		%Rec	1	11/15/2023 11:02:46 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/15/2023 4:13:46 AM
Surr: BFB	91.1	15-244		%Rec	1	11/15/2023 4:13:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/15/2023 4:13:46 AM
Toluene	ND	0.048		mg/Kg	1	11/15/2023 4:13:46 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/15/2023 4:13:46 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/15/2023 4:13:46 AM
Surr: 4-Bromofluorobenzene	94.2	39.1-146		%Rec	1	11/15/2023 4:13:46 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	380	60		mg/Kg	20	11/15/2023 11:03:13 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311545

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-55 4'

Project: Prometheus

Collection Date: 11/8/2023 12:05:00 PM

Lab ID: 2311545-003

Matrix: SOIL

Received Date: 11/10/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/15/2023 11:13:17 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/15/2023 11:13:17 AM
Surr: DNOP	84.2	69-147		%Rec	1	11/15/2023 11:13:17 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/15/2023 5:47:24 AM
Surr: BFB	89.1	15-244		%Rec	1	11/15/2023 5:47:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/15/2023 5:47:24 AM
Toluene	ND	0.049		mg/Kg	1	11/15/2023 5:47:24 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/15/2023 5:47:24 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/15/2023 5:47:24 AM
Surr: 4-Bromofluorobenzene	92.6	39.1-146		%Rec	1	11/15/2023 5:47:24 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	450	61		mg/Kg	20	11/15/2023 11:15:38 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311545
Date Reported: 11/22/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-56 4'
Project: Prometheus Collection Date: 11/8/2023 12:00:00 PM
Lab ID: 2311545-004 Matrix: SOIL Received Date: 11/10/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/15/2023 11:23:49 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/15/2023 11:23:49 AM
Surr: DNOP	82.3	69-147		%Rec	1	11/15/2023 11:23:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/15/2023 6:10:49 AM
Surr: BFB	90.9	15-244		%Rec	1	11/15/2023 6:10:49 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/15/2023 6:10:49 AM
Toluene	ND	0.049		mg/Kg	1	11/15/2023 6:10:49 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/15/2023 6:10:49 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/15/2023 6:10:49 AM
Surr: 4-Bromofluorobenzene	94.6	39.1-146		%Rec	1	11/15/2023 6:10:49 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	510	60		mg/Kg	20	11/15/2023 1:05:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311545

22-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Prometheus

Sample ID: MB-78795	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78795		RunNo: 101177							
Prep Date: 11/14/2023	Analysis Date: 11/14/2023		SeqNo: 3717918		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78795	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78795		RunNo: 101177							
Prep Date: 11/14/2023	Analysis Date: 11/14/2023		SeqNo: 3717919		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.4	90	110			

Sample ID: MB-78811	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78811		RunNo: 101219							
Prep Date: 11/15/2023	Analysis Date: 11/15/2023		SeqNo: 3720672		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78811	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78811		RunNo: 101219							
Prep Date: 11/15/2023	Analysis Date: 11/15/2023		SeqNo: 3720673		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311545

22-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-78757	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 78757		RunNo: 101145							
Prep Date: 11/13/2023	Analysis Date: 11/15/2023		SeqNo: 3717324		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.9	69	147			

Sample ID: MB-78757	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 78757		RunNo: 101145							
Prep Date: 11/13/2023	Analysis Date: 11/15/2023		SeqNo: 3717326		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		90.5	69	147			

Sample ID: LCS-78800	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 78800		RunNo: 101145							
Prep Date: 11/15/2023	Analysis Date: 11/15/2023		SeqNo: 3719019		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	81.1	61.9	130			
Surr: DNOP	3.8		5.000		75.7	69	147			

Sample ID: MB-78800	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 78800		RunNo: 101145							
Prep Date: 11/15/2023	Analysis Date: 11/15/2023		SeqNo: 3719020		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		84.6	69	147			

Sample ID: 2311545-001AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BS23-53 4'	Batch ID: 78800		RunNo: 101145							
Prep Date: 11/15/2023	Analysis Date: 11/15/2023		SeqNo: 3719761		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.8	48.97	0	90.3	54.2	135			
Surr: DNOP	4.4		4.897		89.3	69	147			

Sample ID: 2311545-001AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BS23-53 4'	Batch ID: 78800		RunNo: 101145							
Prep Date: 11/15/2023	Analysis Date: 11/15/2023		SeqNo: 3719762		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.6	47.89	0	85.8	54.2	135	7.31	29.2	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311545

22-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2311545-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-53 4'	Batch ID: 78800	RunNo: 101145								
Prep Date: 11/15/2023	Analysis Date: 11/15/2023	SeqNo: 3719762 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		4.789		82.4	69	147	0	0	

- Qualifiers:
- *

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.
- B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311545

22-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: ics-78760	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78760			RunNo: 101155						
Prep Date: 11/13/2023	Analysis Date: 11/15/2023			SeqNo: 3717629		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.3	70	130			
Surr: BFB	1900		1000		189	15	244			

Sample ID: mb-78760	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78760			RunNo: 101155						
Prep Date: 11/13/2023	Analysis Date: 11/15/2023			SeqNo: 3717630		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.5	15	244			

Sample ID: 2311545-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS23-53 4'	Batch ID: 78760			RunNo: 101155						
Prep Date: 11/13/2023	Analysis Date: 11/15/2023			SeqNo: 3717655		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.7	23.72	0	100	70	130			
Surr: BFB	1900		948.8		203	15	244			

Sample ID: 2311545-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS23-53 4'	Batch ID: 78760			RunNo: 101155						
Prep Date: 11/13/2023	Analysis Date: 11/15/2023			SeqNo: 3717656		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.79	0	94.2	70	130	5.85	20	
Surr: BFB	1900		951.5		196	15	244	0	0	

Sample ID: ics-78754	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78754			RunNo: 101194						
Prep Date: 11/13/2023	Analysis Date: 11/15/2023			SeqNo: 3718682		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		190	15	244			

Sample ID: mb-78754	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78754			RunNo: 101194						
Prep Date: 11/13/2023	Analysis Date: 11/15/2023			SeqNo: 3718683		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.0	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311545

22-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2311545-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-54 4'	Batch ID: 78760	RunNo: 101155								
Prep Date: 11/13/2023	Analysis Date: 11/15/2023	SeqNo: 3717745 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9579	0	99.9	70	130			
Toluene	0.97	0.048	0.9579	0	101	70	130			
Ethylbenzene	0.96	0.048	0.9579	0	100	70	130			
Xylenes, Total	2.9	0.096	2.874	0	99.4	70	130			
Surr: 4-Bromofluorobenzene	0.93		0.9579		97.4	39.1	146			

Sample ID: 2311545-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-54 4'	Batch ID: 78760	RunNo: 101155								
Prep Date: 11/13/2023	Analysis Date: 11/15/2023	SeqNo: 3717746 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9506	0	100	70	130	0.364	20	
Toluene	0.98	0.048	0.9506	0	103	70	130	1.22	20	
Ethylbenzene	0.98	0.048	0.9506	0	103	70	130	1.86	20	
Xylenes, Total	2.9	0.095	2.852	0	103	70	130	2.49	20	
Surr: 4-Bromofluorobenzene	0.92		0.9506		96.6	39.1	146	0	0	

Sample ID: LCS-78760	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 78760	RunNo: 101155								
Prep Date: 11/13/2023	Analysis Date: 11/15/2023	SeqNo: 3717753 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.2	70	130			
Toluene	0.97	0.050	1.000	0	96.7	70	130			
Ethylbenzene	0.96	0.050	1.000	0	95.8	70	130			
Xylenes, Total	2.8	0.10	3.000	0	94.5	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.7	39.1	146			

Sample ID: mb-78760	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 78760	RunNo: 101155								
Prep Date: 11/13/2023	Analysis Date: 11/15/2023	SeqNo: 3717754 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311545

22-Nov-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: LCS-78754	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 78754	RunNo: 101194								
Prep Date: 11/13/2023	Analysis Date: 11/15/2023	SeqNo: 3718687		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		98.5	39.1	146			

Sample ID: mb-78754	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 78754	RunNo: 101194								
Prep Date: 11/13/2023	Analysis Date: 11/15/2023	SeqNo: 3718688		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	39.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Sample Log-In Check List

Client Name: Vertex Resources Work Order Number: 2311545 RcptNo: 1

Received By: Juan Rojas 11/10/2023 7:50:00 AM *Juan Rojas*

Completed By: Tracy Casarrubias 11/10/2023 8:19:32 AM

Reviewed By: DAD 11/10/23

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *ju 11/10/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

Mailing address, phone number, and Email/Fax are missing on COC- TMC 11/10/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.4	Good	Yes	Yogi		



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

November 29, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2311923

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 11/17/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311923

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-112 4'

Project: Prometheus

Collection Date: 11/15/2023 10:50:00 AM

Lab ID: 2311923-001

Matrix: SOIL

Received Date: 11/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/20/2023 6:42:11 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/20/2023 6:42:11 PM
Surr: DNOP	99.0	69-147		%Rec	1	11/20/2023 6:42:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/21/2023 3:26:00 PM
Surr: BFB	105	15-244		%Rec	1	11/21/2023 3:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/21/2023 3:26:00 PM
Toluene	ND	0.048		mg/Kg	1	11/21/2023 3:26:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/21/2023 3:26:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/21/2023 3:26:00 PM
Surr: 4-Bromofluorobenzene	98.1	39.1-146		%Rec	1	11/21/2023 3:26:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	3100	150		mg/Kg	50	11/21/2023 1:09:07 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311923

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-37 4'

Project: Prometheus

Collection Date: 11/15/2023 2:20:00 PM

Lab ID: 2311923-002

Matrix: SOIL

Received Date: 11/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/20/2023 7:05:41 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/20/2023 7:05:41 PM
Surr: DNOP	97.5	69-147		%Rec	1	11/20/2023 7:05:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/21/2023 3:47:00 PM
Surr: BFB	102	15-244		%Rec	1	11/21/2023 3:47:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/21/2023 3:47:00 PM
Toluene	ND	0.047		mg/Kg	1	11/21/2023 3:47:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/21/2023 3:47:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/21/2023 3:47:00 PM
Surr: 4-Bromofluorobenzene	97.4	39.1-146		%Rec	1	11/21/2023 3:47:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	260	60		mg/Kg	20	11/20/2023 5:22:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311923

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-38 4'

Project: Prometheus

Collection Date: 11/15/2023 2:10:00 PM

Lab ID: 2311923-003

Matrix: SOIL

Received Date: 11/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/20/2023 7:29:09 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/20/2023 7:29:09 PM
Surr: DNOP	97.1	69-147		%Rec	1	11/20/2023 7:29:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/21/2023 4:09:00 PM
Surr: BFB	101	15-244		%Rec	1	11/21/2023 4:09:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/21/2023 4:09:00 PM
Toluene	ND	0.049		mg/Kg	1	11/21/2023 4:09:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/21/2023 4:09:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/21/2023 4:09:00 PM
Surr: 4-Bromofluorobenzene	96.3	39.1-146		%Rec	1	11/21/2023 4:09:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	220	60		mg/Kg	20	11/20/2023 5:59:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311923

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-39 4'

Project: Prometheus

Collection Date: 11/15/2023 2:10:00 PM

Lab ID: 2311923-004

Matrix: SOIL

Received Date: 11/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/20/2023 7:52:37 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/20/2023 7:52:37 PM
Surr: DNOP	101	69-147		%Rec	1	11/20/2023 7:52:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/21/2023 4:53:00 PM
Surr: BFB	98.3	15-244		%Rec	1	11/21/2023 4:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/21/2023 4:53:00 PM
Toluene	ND	0.049		mg/Kg	1	11/21/2023 4:53:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/21/2023 4:53:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/21/2023 4:53:00 PM
Surr: 4-Bromofluorobenzene	93.2	39.1-146		%Rec	1	11/21/2023 4:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	240	60		mg/Kg	20	11/20/2023 6:11:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311923

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-40 4'

Project: Prometheus

Collection Date: 11/15/2023 2:15:00 PM

Lab ID: 2311923-005

Matrix: SOIL

Received Date: 11/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/20/2023 8:39:30 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/20/2023 8:39:30 PM
Surr: DNOP	100	69-147		%Rec	1	11/20/2023 8:39:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/21/2023 5:14:00 PM
Surr: BFB	100	15-244		%Rec	1	11/21/2023 5:14:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	11/21/2023 5:14:00 PM
Toluene	ND	0.047		mg/Kg	1	11/21/2023 5:14:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/21/2023 5:14:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/21/2023 5:14:00 PM
Surr: 4-Bromofluorobenzene	94.3	39.1-146		%Rec	1	11/21/2023 5:14:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	290	60		mg/Kg	20	11/20/2023 6:24:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311923

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-44 4'

Project: Prometheus

Collection Date: 11/15/2023 2:15:00 PM

Lab ID: 2311923-006

Matrix: SOIL

Received Date: 11/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/20/2023 9:02:55 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/20/2023 9:02:55 PM
Surr: DNOP	107	69-147		%Rec	1	11/20/2023 9:02:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/21/2023 5:36:00 PM
Surr: BFB	101	15-244		%Rec	1	11/21/2023 5:36:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/21/2023 5:36:00 PM
Toluene	ND	0.048		mg/Kg	1	11/21/2023 5:36:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/21/2023 5:36:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/21/2023 5:36:00 PM
Surr: 4-Bromofluorobenzene	93.3	39.1-146		%Rec	1	11/21/2023 5:36:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	350	60		mg/Kg	20	11/20/2023 6:36:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311923

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78901	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78901	RunNo: 101327								
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3727253	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78901	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 78901	RunNo: 101327								
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3727254	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311923
29-Nov-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: MB-78885	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78885	RunNo: 101343								
Prep Date: 11/17/2023	Analysis Date: 11/20/2023	SeqNo: 3727650		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	69	147			

Sample ID: LCS-78885	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78885	RunNo: 101343								
Prep Date: 11/17/2023	Analysis Date: 11/20/2023	SeqNo: 3727651		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	61.9	130			
Surr: DNOP	4.7		5.000		94.8	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311923

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78878	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78878		RunNo: 101392							
Prep Date: 11/17/2023	Analysis Date: 11/21/2023		SeqNo: 3730403		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	70	130			
Surr: BFB	2200		1000		224	15	244			

Sample ID: mb-78878	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78878		RunNo: 101392							
Prep Date: 11/17/2023	Analysis Date: 11/21/2023		SeqNo: 3730404		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	15	244			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311923

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78878	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 78878			RunNo: 101392						
Prep Date: 11/17/2023	Analysis Date: 11/21/2023			SeqNo: 3730446		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.1	70	130			
Toluene	0.98	0.050	1.000	0	97.8	70	130			
Ethylbenzene	0.98	0.050	1.000	0	98.2	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.5	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	39.1	146			

Sample ID: mb-78878	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 78878			RunNo: 101392						
Prep Date: 11/17/2023	Analysis Date: 11/21/2023			SeqNo: 3730447		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	39.1	146			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

Sample Log-In Check List

Client Name: **Vertex Resources** Work Order Number: **2311923** RcptNo: **1**

Received By: **Tracy Casarrubias** 11/17/2023 7:45:00 AM

Completed By: **Tracy Casarrubias** 11/17/2023 8:30:29 AM

Reviewed By: **2011/17/23**

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

SCM 11/17/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions: **Mailing address, phone number, and Email/Fax are missing on COC- TMC 11/17/23**

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes	Yogi		



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

January 11, 2024

Sally Carter

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2401253

Dear Sally Carter:

Eurofins Environment Testing South Central, LLC received 16 sample(s) on 1/6/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401253

Date Reported: 1/11/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-156 0'
Project: Prometheus Collection Date: 1/3/2024 2:00:00 PM
Lab ID: 2401253-001 Matrix: SOIL Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/8/2024 5:52:58 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/8/2024 5:52:58 PM
Surr: DNOP	114	69-147		%Rec	1	1/8/2024 5:52:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2024 11:22:43 AM
Surr: BFB	100	15-244		%Rec	1	1/9/2024 11:22:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/9/2024 11:22:43 AM
Toluene	ND	0.049		mg/Kg	1	1/9/2024 11:22:43 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2024 11:22:43 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/9/2024 11:22:43 AM
Surr: 4-Bromofluorobenzene	94.1	39.1-146		%Rec	1	1/9/2024 11:22:43 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	78	60		mg/Kg	20	1/8/2024 7:15:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2401253

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-157 0'

Project: Prometheus

Collection Date: 1/3/2024 2:00:00 PM

Lab ID: 2401253-002

Matrix: SOIL

Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/8/2024 6:24:49 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/8/2024 6:24:49 PM
Surr: DNOP	89.8	69-147		%Rec	1	1/8/2024 6:24:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/9/2024 11:46:26 AM
Surr: BFB	101	15-244		%Rec	1	1/9/2024 11:46:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/9/2024 11:46:26 AM
Toluene	ND	0.047		mg/Kg	1	1/9/2024 11:46:26 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/9/2024 11:46:26 AM
Xylenes, Total	ND	0.094		mg/Kg	1	1/9/2024 11:46:26 AM
Surr: 4-Bromofluorobenzene	94.1	39.1-146		%Rec	1	1/9/2024 11:46:26 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	80	60		mg/Kg	20	1/8/2024 7:27:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401253
Date Reported: 1/11/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-158 0'
Project: Prometheus Collection Date: 1/3/2024 2:05:00 PM
Lab ID: 2401253-003 Matrix: SOIL Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/8/2024 6:35:25 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/8/2024 6:35:25 PM
Surr: DNOP	91.9	69-147		%Rec	1	1/8/2024 6:35:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/9/2024 12:10:10 PM
Surr: BFB	102	15-244		%Rec	1	1/9/2024 12:10:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/9/2024 12:10:10 PM
Toluene	ND	0.048		mg/Kg	1	1/9/2024 12:10:10 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/9/2024 12:10:10 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/9/2024 12:10:10 PM
Surr: 4-Bromofluorobenzene	96.0	39.1-146		%Rec	1	1/9/2024 12:10:10 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	220	60		mg/Kg	20	1/8/2024 7:39:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401253-004

Client Sample ID: BS23-159 0'
Collection Date: 1/3/2024 2:05:00 PM
Received Date: 1/6/2024 8:35:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/8/2024 6:46:01 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/8/2024 6:46:01 PM
Surr: DNOP	94.2	69-147		%Rec	1	1/8/2024 6:46:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/9/2024 12:34:08 PM
Surr: BFB	99.0	15-244		%Rec	1	1/9/2024 12:34:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/9/2024 12:34:08 PM
Toluene	ND	0.047		mg/Kg	1	1/9/2024 12:34:08 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/9/2024 12:34:08 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/9/2024 12:34:08 PM
Surr: 4-Bromofluorobenzene	93.0	39.1-146		%Rec	1	1/9/2024 12:34:08 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	350	60		mg/Kg	20	1/8/2024 8:17:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401253

Date Reported: 1/11/2024

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-160 0'

Project: Prometheus

Collection Date: 1/3/2024 2:10:00 PM

Lab ID: 2401253-005

Matrix: SOIL

Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/8/2024 6:56:34 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/8/2024 6:56:34 PM
Surr: DNOP	92.2	69-147		%Rec	1	1/8/2024 6:56:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2024 12:57:42 PM
Surr: BFB	99.5	15-244		%Rec	1	1/9/2024 12:57:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/9/2024 12:57:42 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2024 12:57:42 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2024 12:57:42 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/9/2024 12:57:42 PM
Surr: 4-Bromofluorobenzene	94.2	39.1-146		%Rec	1	1/9/2024 12:57:42 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	350	60		mg/Kg	20	1/8/2024 8:54:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401253
Date Reported: 1/11/2024

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401253-006

Client Sample ID: BS23-161 0'
Collection Date: 1/3/2024 2:10:00 PM
Received Date: 1/6/2024 8:35:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/8/2024 7:07:07 PM
Motor Oil Range Organics (MRO)	51	49		mg/Kg	1	1/8/2024 7:07:07 PM
Surr: DNOP	91.1	69-147		%Rec	1	1/8/2024 7:07:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2024 1:21:22 PM
Surr: BFB	103	15-244		%Rec	1	1/9/2024 1:21:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/9/2024 1:21:22 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2024 1:21:22 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2024 1:21:22 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/9/2024 1:21:22 PM
Surr: 4-Bromofluorobenzene	96.6	39.1-146		%Rec	1	1/9/2024 1:21:22 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	350	60		mg/Kg	20	1/8/2024 9:06:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401253
Date Reported: 1/11/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-162 0'
Project: Prometheus Collection Date: 1/3/2024 2:15:00 PM
Lab ID: 2401253-007 Matrix: SOIL Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/8/2024 7:17:38 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/8/2024 7:17:38 PM
Surr: DNOP	97.7	69-147		%Rec	1	1/8/2024 7:17:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2024 1:44:57 PM
Surr: BFB	104	15-244		%Rec	1	1/9/2024 1:44:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/9/2024 1:44:57 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2024 1:44:57 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2024 1:44:57 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/9/2024 1:44:57 PM
Surr: 4-Bromofluorobenzene	96.3	39.1-146		%Rec	1	1/9/2024 1:44:57 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	78	60		mg/Kg	20	1/8/2024 9:43:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2401253

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-163 0'

Project: Prometheus

Collection Date: 1/3/2024 2:15:00 PM

Lab ID: 2401253-008

Matrix: SOIL

Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	15	9.2		mg/Kg	1	1/8/2024 7:28:07 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/8/2024 7:28:07 PM
Surr: DNOP	118	69-147		%Rec	1	1/8/2024 7:28:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/9/2024 2:09:07 PM
Surr: BFB	99.9	15-244		%Rec	1	1/9/2024 2:09:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/9/2024 2:09:07 PM
Toluene	ND	0.048		mg/Kg	1	1/9/2024 2:09:07 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/9/2024 2:09:07 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/9/2024 2:09:07 PM
Surr: 4-Bromofluorobenzene	94.0	39.1-146		%Rec	1	1/9/2024 2:09:07 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	380	60		mg/Kg	20	1/8/2024 9:56:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401253

Date Reported: 1/11/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-164 0'
Project: Prometheus Collection Date: 1/3/2024 2:20:00 PM
Lab ID: 2401253-009 Matrix: SOIL Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/8/2024 7:48:52 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/8/2024 7:48:52 PM
Surr: DNOP	92.8	69-147		%Rec	1	1/8/2024 7:48:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/9/2024 2:32:39 PM
Surr: BFB	99.4	15-244		%Rec	1	1/9/2024 2:32:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/9/2024 2:32:39 PM
Toluene	ND	0.047		mg/Kg	1	1/9/2024 2:32:39 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/9/2024 2:32:39 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/9/2024 2:32:39 PM
Surr: 4-Bromofluorobenzene	93.4	39.1-146		%Rec	1	1/9/2024 2:32:39 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	370	60		mg/Kg	20	1/8/2024 10:08:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401253

Date Reported: 1/11/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-165 0'
Project: Prometheus Collection Date: 1/3/2024 2:20:00 PM
Lab ID: 2401253-010 Matrix: SOIL Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/8/2024 7:59:18 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/8/2024 7:59:18 PM
Surr: DNOP	94.4	69-147		%Rec	1	1/8/2024 7:59:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/9/2024 2:56:27 PM
Surr: BFB	101	15-244		%Rec	1	1/9/2024 2:56:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/9/2024 2:56:27 PM
Toluene	ND	0.048		mg/Kg	1	1/9/2024 2:56:27 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/9/2024 2:56:27 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/9/2024 2:56:27 PM
Surr: 4-Bromofluorobenzene	95.2	39.1-146		%Rec	1	1/9/2024 2:56:27 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	370	60		mg/Kg	20	1/8/2024 10:21:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401253

Date Reported: 1/11/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-166 0'
Project: Prometheus Collection Date: 1/3/2024 2:25:00 PM
Lab ID: 2401253-011 Matrix: SOIL Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/8/2024 8:09:44 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/8/2024 8:09:44 PM
Surr: DNOP	95.7	69-147		%Rec	1	1/8/2024 8:09:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2024 3:43:51 PM
Surr: BFB	102	15-244		%Rec	1	1/9/2024 3:43:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/9/2024 3:43:51 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2024 3:43:51 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2024 3:43:51 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/9/2024 3:43:51 PM
Surr: 4-Bromofluorobenzene	93.6	39.1-146		%Rec	1	1/9/2024 3:43:51 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	200	60		mg/Kg	20	1/8/2024 10:33:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2401253

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-167 0'

Project: Prometheus

Collection Date: 1/3/2024 2:25:00 PM

Lab ID: 2401253-012

Matrix: SOIL

Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/8/2024 8:20:09 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/8/2024 8:20:09 PM
Surr: DNOP	92.0	69-147		%Rec	1	1/8/2024 8:20:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/9/2024 4:07:31 PM
Surr: BFB	99.6	15-244		%Rec	1	1/9/2024 4:07:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/9/2024 4:07:31 PM
Toluene	ND	0.050		mg/Kg	1	1/9/2024 4:07:31 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/9/2024 4:07:31 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/9/2024 4:07:31 PM
Surr: 4-Bromofluorobenzene	94.9	39.1-146		%Rec	1	1/9/2024 4:07:31 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	300	60		mg/Kg	20	1/8/2024 10:46:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2401253

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-168 0'

Project: Prometheus

Collection Date: 1/3/2024 2:30:00 PM

Lab ID: 2401253-013

Matrix: SOIL

Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/8/2024 8:30:34 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/8/2024 8:30:34 PM
Surr: DNOP	95.2	69-147		%Rec	1	1/8/2024 8:30:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/9/2024 4:31:31 PM
Surr: BFB	99.2	15-244		%Rec	1	1/9/2024 4:31:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/9/2024 4:31:31 PM
Toluene	ND	0.047		mg/Kg	1	1/9/2024 4:31:31 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/9/2024 4:31:31 PM
Xylenes, Total	ND	0.093		mg/Kg	1	1/9/2024 4:31:31 PM
Surr: 4-Bromofluorobenzene	92.5	39.1-146		%Rec	1	1/9/2024 4:31:31 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	380	60		mg/Kg	20	1/8/2024 10:58:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401253

Date Reported: 1/11/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-169 0'
Project: Prometheus Collection Date: 1/3/2024 2:30:00 PM
Lab ID: 2401253-014 Matrix: SOIL Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/8/2024 8:40:57 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/8/2024 8:40:57 PM
Surr: DNOP	99.1	69-147		%Rec	1	1/8/2024 8:40:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/9/2024 4:55:34 PM
Surr: BFB	101	15-244		%Rec	1	1/9/2024 4:55:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/9/2024 4:55:34 PM
Toluene	ND	0.047		mg/Kg	1	1/9/2024 4:55:34 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/9/2024 4:55:34 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/9/2024 4:55:34 PM
Surr: 4-Bromofluorobenzene	92.8	39.1-146		%Rec	1	1/9/2024 4:55:34 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	380	60		mg/Kg	20	1/8/2024 11:10:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401253
Date Reported: 1/11/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-170 0'
Project: Prometheus Collection Date: 1/3/2024 2:35:00 PM
Lab ID: 2401253-015 Matrix: SOIL Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/8/2024 8:51:19 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/8/2024 8:51:19 PM
Surr: DNOP	97.0	69-147		%Rec	1	1/8/2024 8:51:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/9/2024 5:19:36 PM
Surr: BFB	100	15-244		%Rec	1	1/9/2024 5:19:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/9/2024 5:19:36 PM
Toluene	ND	0.047		mg/Kg	1	1/9/2024 5:19:36 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/9/2024 5:19:36 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/9/2024 5:19:36 PM
Surr: 4-Bromofluorobenzene	94.7	39.1-146		%Rec	1	1/9/2024 5:19:36 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	380	60		mg/Kg	20	1/8/2024 11:23:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401253

Date Reported: 1/11/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-171 0'
Project: Prometheus Collection Date: 1/3/2024 2:35:00 PM
Lab ID: 2401253-016 Matrix: SOIL Received Date: 1/6/2024 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/8/2024 9:01:52 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/8/2024 9:01:52 PM
Surr: DNOP	104	69-147		%Rec	1	1/8/2024 9:01:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/9/2024 5:43:11 PM
Surr: BFB	100	15-244		%Rec	1	1/9/2024 5:43:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/9/2024 5:43:11 PM
Toluene	ND	0.048		mg/Kg	1	1/9/2024 5:43:11 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/9/2024 5:43:11 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/9/2024 5:43:11 PM
Surr: 4-Bromofluorobenzene	93.9	39.1-146		%Rec	1	1/9/2024 5:43:11 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	290	60		mg/Kg	20	1/8/2024 11:35:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401253

11-Jan-24

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: MB-79786	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 79786	RunNo: 102317								
Prep Date: 1/8/2024	Analysis Date: 1/8/2024	SeqNo: 3778327		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79786	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 79786	RunNo: 102317								
Prep Date: 1/8/2024	Analysis Date: 1/8/2024	SeqNo: 3778328		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401253

11-Jan-24

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: 2401253-001AMS		SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: BS23-156 0'		Batch ID: 79783			RunNo: 102322					
Prep Date: 1/8/2024		Analysis Date: 1/8/2024			SeqNo: 3778479		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.4	46.82	0	89.8	54.2	135			
Surr: DNOP	5.1		4.682		109	69	147			

Sample ID: 2401253-001AMSD		SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: BS23-156 0'		Batch ID: 79783			RunNo: 102322					
Prep Date: 1/8/2024		Analysis Date: 1/8/2024			SeqNo: 3778480		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.9	49.50	0	91.8	54.2	135	7.87	29.2	
Surr: DNOP	5.4		4.950		110	69	147	0	0	

Sample ID: LCS-79783		SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS		Batch ID: 79783			RunNo: 102322					
Prep Date: 1/8/2024		Analysis Date: 1/8/2024			SeqNo: 3778536		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.2	61.9	130			
Surr: DNOP	4.8		5.000		95.5	69	147			

Sample ID: MB-79783		SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS		Batch ID: 79783			RunNo: 102322					
Prep Date: 1/8/2024		Analysis Date: 1/8/2024			SeqNo: 3778540		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.6	69	147			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401253

11-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: ics-79772	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 79772	RunNo: 102331								
Prep Date: 1/8/2024	Analysis Date: 1/9/2024	SeqNo: 3778719			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.6	70	130			
Surr: BFB	2000		1000		204	15	244			

Sample ID: mb-79772	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 79772	RunNo: 102331								
Prep Date: 1/8/2024	Analysis Date: 1/9/2024	SeqNo: 3778720			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	15	244			

Sample ID: 2401253-001AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BS23-156 0'	Batch ID: 79772	RunNo: 102331								
Prep Date: 1/8/2024	Analysis Date: 1/9/2024	SeqNo: 3779341			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.49	0	97.0	70	130			
Surr: BFB	2100		979.4		213	15	244			

Sample ID: 2401253-001AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BS23-156 0'	Batch ID: 79772	RunNo: 102331								
Prep Date: 1/8/2024	Analysis Date: 1/9/2024	SeqNo: 3779343			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.39	0	96.4	70	130	0.929	20	
Surr: BFB	2100		975.6		214	15	244	0	0	

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401253

11-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-79772		SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS		Batch ID: 79772		RunNo: 102331						
Prep Date: 1/8/2024		Analysis Date: 1/9/2024		SeqNo: 3778737		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.1	70	130			
Toluene	0.90	0.050	1.000	0	90.4	70	130			
Ethylbenzene	0.91	0.050	1.000	0	91.2	70	130			
Xylenes, Total	2.7	0.10	3.000	0	91.5	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	39.1	146			

Sample ID: mb-79772		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: 79772		RunNo: 102331						
Prep Date: 1/8/2024		Analysis Date: 1/9/2024		SeqNo: 3778738		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	39.1	146			

Sample ID: 2401253-002AMS		SampType: MS		TestCode: EPA Method 8021B: Volatiles						
Client ID: BS23-157 0'		Batch ID: 79772		RunNo: 102331						
Prep Date: 1/8/2024		Analysis Date: 1/9/2024		SeqNo: 3779364		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.024	0.9461	0	89.9	70	130			
Toluene	0.86	0.047	0.9461	0	90.9	70	130			
Ethylbenzene	0.87	0.047	0.9461	0	92.4	70	130			
Xylenes, Total	2.6	0.095	2.838	0	91.8	70	130			
Surr: 4-Bromofluorobenzene	0.90		0.9461		95.0	39.1	146			

Sample ID: 2401253-002AMSD		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: BS23-157 0'		Batch ID: 79772		RunNo: 102331						
Prep Date: 1/8/2024		Analysis Date: 1/9/2024		SeqNo: 3779366		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9416	0	93.5	70	130	3.43	20	
Toluene	0.89	0.047	0.9416	0	94.6	70	130	3.44	20	
Ethylbenzene	0.90	0.047	0.9416	0	96.1	70	130	3.51	20	
Xylenes, Total	2.7	0.094	2.825	0	96.8	70	130	4.84	20	
Surr: 4-Bromofluorobenzene	0.91		0.9416		96.4	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



Environment Testin

Eurofins Environment Testing South
Central, LLC

4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2401253

RcptNo: 1

Received By: Cheyenne Cason

1/6/2024 8:35:00 AM

Chm

Completed By: Cheyenne Cason

1/6/2024 8:50:02 AM

*Chm*Reviewed By: *SCM 1/8/24*Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *One 1/6/24*Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good	Not Present	Yogi		

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

3TEX / MTBE / TMB's (8021)
TPH:8015D(GRO / DRO / MRO)
3081 Pesticides/8082 PCB's
EEDB (Method 504.1)
PAHs by 8310 or 8270SIMS
RCRA 8 Metals
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄
8260 (VOA)
8270 (Semi-VOA)
Total Coliform (Present/Absent)

Date	Time	Matrix	Sample Name	Cooler Temp (including CF): 31-0-3.1			BTEX / MT	TPH:8015D	8081 Pestic	EDB (Meth	PAHs by 8	RCRA 8 M	Cl, F, Br,	8260 (VOA	8270 (Semi	Total Colif																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
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Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1-4-24	07:00	Sakirullah	Asim		1/5/24	0700
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1/5/24	1900	Asim	Chae	CCurrier	1/6/24	0835

Remarks:
Ace Fluid Solutions
cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report

 $\frac{1}{2}$

Released to Imaging: 3/1/2024 7:19:02 AM

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Received by *OCID*: 2/8/2024 6:26:45 PM

Chain-of-Custody Record

Client: Vertex	Turn-Around Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush_72-hour rush
	Project Name:
Mailing Address:	Prometheus
	Project #:
Phone #:	23E-03329
email or Fax#:	Project Manager:
QA/QC Package:	Sally Carttar
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)	
Accreditation: <input type="checkbox"/> Az Compliance	Sampler: L. Pullman
<input type="checkbox"/> NELAC <input type="checkbox"/> Other _____	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Yes!</i>
<input type="checkbox"/> EDD (Type) _____	# of Coolers:

[illegible]

2/2



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

January 15, 2024

Sally Carttar

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2401304

Dear Sally Carttar:

Eurofins Environment Testing South Central, LLC received 28 sample(s) on 1/9/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401304-001

Client Sample ID: BS23-172 0'
Collection Date: 1/6/2024 2:00:00 PM
Received Date: 1/9/2024 7:30:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/10/2024 5:26:30 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/10/2024 5:26:30 PM
Surr: DNOP	99.4	69-147		%Rec	1	1/10/2024 5:26:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2024 11:46:00 AM
Surr: BFB	107	15-244		%Rec	1	1/10/2024 11:46:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 11:46:00 AM
Toluene	ND	0.049		mg/Kg	1	1/10/2024 11:46:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2024 11:46:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2024 11:46:00 AM
Surr: 4-Bromofluorobenzene	96.5	39.1-146		%Rec	1	1/10/2024 11:46:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	150	60		mg/Kg	20	1/11/2024 12:30:17 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-173 0'

Project: Prometheus

Collection Date: 1/6/2024 2:05:00 PM

Lab ID: 2401304-002

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/10/2024 5:58:34 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/10/2024 5:58:34 PM
Surr: DNOP	109	69-147		%Rec	1	1/10/2024 5:58:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2024 12:52:00 PM
Surr: BFB	108	15-244		%Rec	1	1/10/2024 12:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 12:52:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2024 12:52:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2024 12:52:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2024 12:52:00 PM
Surr: 4-Bromofluorobenzene	98.7	39.1-146		%Rec	1	1/10/2024 12:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 3:22:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401304

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-174 0'
Project: Prometheus Collection Date: 1/6/2024 2:05:00 PM
Lab ID: 2401304-003 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/10/2024 6:09:22 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/10/2024 6:09:22 PM
Surr: DNOP	110	69-147		%Rec	1	1/10/2024 6:09:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2024 1:58:00 PM
Surr: BFB	107	15-244		%Rec	1	1/10/2024 1:58:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 1:58:00 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2024 1:58:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2024 1:58:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/10/2024 1:58:00 PM
Surr: 4-Bromofluorobenzene	96.6	39.1-146		%Rec	1	1/10/2024 1:58:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 3:34:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-175 0'

Project: Prometheus

Collection Date: 1/6/2024 2:10:00 PM

Lab ID: 2401304-004

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	14	10		mg/Kg	1	1/10/2024 6:20:08 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/10/2024 6:20:08 PM
Surr: DNOP	96.6	69-147		%Rec	1	1/10/2024 6:20:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/10/2024 2:20:00 PM
Surr: BFB	101	15-244		%Rec	1	1/10/2024 2:20:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/10/2024 2:20:00 PM
Toluene	ND	0.050		mg/Kg	1	1/10/2024 2:20:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/10/2024 2:20:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/10/2024 2:20:00 PM
Surr: 4-Bromofluorobenzene	96.3	39.1-146		%Rec	1	1/10/2024 2:20:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	270	60		mg/Kg	20	1/10/2024 3:46:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-176 0'

Project: Prometheus

Collection Date: 1/6/2024 2:10:00 PM

Lab ID: 2401304-005

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/10/2024 6:30:42 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/10/2024 6:30:42 PM
Surr: DNOP	109	69-147		%Rec	1	1/10/2024 6:30:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/10/2024 2:42:00 PM
Surr: BFB	106	15-244		%Rec	1	1/10/2024 2:42:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	1/10/2024 2:42:00 PM
Toluene	ND	0.047		mg/Kg	1	1/10/2024 2:42:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/10/2024 2:42:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	1/10/2024 2:42:00 PM
Surr: 4-Bromofluorobenzene	98.6	39.1-146		%Rec	1	1/10/2024 2:42:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 3:59:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401304
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-177 0'
Project: Prometheus Collection Date: 1/6/2024 2:15:00 PM
Lab ID: 2401304-006 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	1/10/2024 6:41:26 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/10/2024 6:41:26 PM
Surr: DNOP	97.4	69-147		%Rec	1	1/10/2024 6:41:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2024 3:04:00 PM
Surr: BFB	107	15-244		%Rec	1	1/10/2024 3:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 3:04:00 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2024 3:04:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2024 3:04:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2024 3:04:00 PM
Surr: 4-Bromofluorobenzene	99.7	39.1-146		%Rec	1	1/10/2024 3:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 4:11:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401304

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-178 0'
Project: Prometheus Collection Date: 1/6/2024 2:15:00 PM
Lab ID: 2401304-007 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/10/2024 6:51:58 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/10/2024 6:51:58 PM
Surr: DNOP	100	69-147		%Rec	1	1/10/2024 6:51:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2024 3:26:00 PM
Surr: BFB	106	15-244		%Rec	1	1/10/2024 3:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/10/2024 3:26:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2024 3:26:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2024 3:26:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/10/2024 3:26:00 PM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	1/10/2024 3:26:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	320	60		mg/Kg	20	1/10/2024 4:24:07 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2401304

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-179 0'

Project: Prometheus

Collection Date: 1/6/2024 2:20:00 PM

Lab ID: 2401304-008

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/10/2024 7:02:29 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/10/2024 7:02:29 PM
Surr: DNOP	102	69-147		%Rec	1	1/10/2024 7:02:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/10/2024 3:48:00 PM
Surr: BFB	106	15-244		%Rec	1	1/10/2024 3:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 3:48:00 PM
Toluene	ND	0.047		mg/Kg	1	1/10/2024 3:48:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/10/2024 3:48:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/10/2024 3:48:00 PM
Surr: 4-Bromofluorobenzene	98.8	39.1-146		%Rec	1	1/10/2024 3:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	320	60		mg/Kg	20	1/10/2024 4:36:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-180 0'

Project: Prometheus

Collection Date: 1/6/2024 2:20:00 PM

Lab ID: 2401304-009

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/10/2024 7:23:20 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/10/2024 7:23:20 PM
Surr: DNOP	97.4	69-147		%Rec	1	1/10/2024 7:23:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/10/2024 4:10:00 PM
Surr: BFB	105	15-244		%Rec	1	1/10/2024 4:10:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/10/2024 4:10:00 PM
Toluene	ND	0.050		mg/Kg	1	1/10/2024 4:10:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/10/2024 4:10:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/10/2024 4:10:00 PM
Surr: 4-Bromofluorobenzene	98.0	39.1-146		%Rec	1	1/10/2024 4:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	68	60		mg/Kg	20	1/10/2024 4:48:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401304
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-181 0'
Project: Prometheus Collection Date: 1/6/2024 2:25:00 PM
Lab ID: 2401304-010 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/10/2024 7:33:48 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/10/2024 7:33:48 PM
Surr: DNOP	93.9	69-147		%Rec	1	1/10/2024 7:33:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2024 4:32:00 PM
Surr: BFB	107	15-244		%Rec	1	1/10/2024 4:32:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 4:32:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2024 4:32:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2024 4:32:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2024 4:32:00 PM
Surr: 4-Bromofluorobenzene	98.7	39.1-146		%Rec	1	1/10/2024 4:32:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 5:01:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401304
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-182 0'
Project: Prometheus Collection Date: 1/6/2024 2:25:00 PM
Lab ID: 2401304-011 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/10/2024 7:44:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/10/2024 7:44:16 PM
Surr: DNOP	93.8	69-147		%Rec	1	1/10/2024 7:44:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/10/2024 5:16:00 PM
Surr: BFB	105	15-244		%Rec	1	1/10/2024 5:16:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	1/10/2024 5:16:00 PM
Toluene	ND	0.047		mg/Kg	1	1/10/2024 5:16:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/10/2024 5:16:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/10/2024 5:16:00 PM
Surr: 4-Bromofluorobenzene	97.8	39.1-146		%Rec	1	1/10/2024 5:16:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	260	60		mg/Kg	20	1/10/2024 5:13:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-183 0'

Project: Prometheus

Collection Date: 1/6/2024 2:30:00 PM

Lab ID: 2401304-012

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/10/2024 7:54:42 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/10/2024 7:54:42 PM
Surr: DNOP	80.6	69-147		%Rec	1	1/10/2024 7:54:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2024 5:38:00 PM
Surr: BFB	108	15-244		%Rec	1	1/10/2024 5:38:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 5:38:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2024 5:38:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2024 5:38:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2024 5:38:00 PM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	1/10/2024 5:38:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 5:50:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401304-013

Client Sample ID: BS23-184 0'
Collection Date: 1/6/2024 2:30:00 PM
Received Date: 1/9/2024 7:30:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/10/2024 8:05:08 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/10/2024 8:05:08 PM
Surr: DNOP	102	69-147		%Rec	1	1/10/2024 8:05:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2024 6:00:00 PM
Surr: BFB	107	15-244		%Rec	1	1/10/2024 6:00:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 6:00:00 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2024 6:00:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2024 6:00:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/10/2024 6:00:00 PM
Surr: 4-Bromofluorobenzene	97.2	39.1-146		%Rec	1	1/10/2024 6:00:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	240	60		mg/Kg	20	1/10/2024 6:03:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401304

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-185 0'

Project: Prometheus

Collection Date: 1/6/2024 2:35:00 PM

Lab ID: 2401304-014

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	16	9.6		mg/Kg	1	1/10/2024 8:15:32 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/10/2024 8:15:32 PM
Surr: DNOP	98.5	69-147		%Rec	1	1/10/2024 8:15:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2024 6:21:00 PM
Surr: BFB	108	15-244		%Rec	1	1/10/2024 6:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/10/2024 6:21:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2024 6:21:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2024 6:21:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/10/2024 6:21:00 PM
Surr: 4-Bromofluorobenzene	95.7	39.1-146		%Rec	1	1/10/2024 6:21:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 6:15:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401304
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-186 0'
Project: Prometheus Collection Date: 1/6/2024 2:35:00 PM
Lab ID: 2401304-015 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/10/2024 8:26:05 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/10/2024 8:26:05 PM
Surr: DNOP	106	69-147		%Rec	1	1/10/2024 8:26:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/10/2024 6:43:00 PM
Surr: BFB	106	15-244		%Rec	1	1/10/2024 6:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	1/10/2024 6:43:00 PM
Toluene	ND	0.046		mg/Kg	1	1/10/2024 6:43:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/10/2024 6:43:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	1/10/2024 6:43:00 PM
Surr: 4-Bromofluorobenzene	98.5	39.1-146		%Rec	1	1/10/2024 6:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	240	61		mg/Kg	20	1/10/2024 6:28:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401304-016

Client Sample ID: BS23-187 0'
Collection Date: 1/6/2024 2:40:00 PM
Received Date: 1/9/2024 7:30:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/10/2024 8:36:27 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/10/2024 8:36:27 PM
Surr: DNOP	95.5	69-147		%Rec	1	1/10/2024 8:36:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/10/2024 7:05:00 PM
Surr: BFB	106	15-244		%Rec	1	1/10/2024 7:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 7:05:00 PM
Toluene	ND	0.047		mg/Kg	1	1/10/2024 7:05:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/10/2024 7:05:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/10/2024 7:05:00 PM
Surr: 4-Bromofluorobenzene	98.2	39.1-146		%Rec	1	1/10/2024 7:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 6:40:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401304

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-188 0'
Project: Prometheus Collection Date: 1/6/2024 2:40:00 PM
Lab ID: 2401304-017 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/10/2024 8:46:47 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/10/2024 8:46:47 PM
Surr: DNOP	108	69-147		%Rec	1	1/10/2024 8:46:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/10/2024 7:27:00 PM
Surr: BFB	107	15-244		%Rec	1	1/10/2024 7:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 7:27:00 PM
Toluene	ND	0.047		mg/Kg	1	1/10/2024 7:27:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/10/2024 7:27:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/10/2024 7:27:00 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	1/10/2024 7:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	140	60		mg/Kg	20	1/10/2024 6:53:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401304

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-189 0'
Project: Prometheus Collection Date: 1/6/2024 2:45:00 PM
Lab ID: 2401304-018 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	10	9.4		mg/Kg	1	1/10/2024 8:57:08 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/10/2024 8:57:08 PM
Surr: DNOP	99.9	69-147		%Rec	1	1/10/2024 8:57:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2024 7:49:00 PM
Surr: BFB	109	15-244		%Rec	1	1/10/2024 7:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 7:49:00 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2024 7:49:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2024 7:49:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/10/2024 7:49:00 PM
Surr: 4-Bromofluorobenzene	98.1	39.1-146		%Rec	1	1/10/2024 7:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 7:05:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2401304

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-190 0'

Project: Prometheus

Collection Date: 1/6/2024 2:45:00 PM

Lab ID: 2401304-019

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/10/2024 9:07:31 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/10/2024 9:07:31 PM
Surr: DNOP	102	69-147		%Rec	1	1/10/2024 9:07:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2024 8:11:00 PM
Surr: BFB	108	15-244		%Rec	1	1/10/2024 8:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 8:11:00 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2024 8:11:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2024 8:11:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/10/2024 8:11:00 PM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	1/10/2024 8:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 7:17:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2401304

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-191 0'
Project: Prometheus Collection Date: 1/6/2024 2:50:00 PM
Lab ID: 2401304-020 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/10/2024 9:17:53 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/10/2024 9:17:53 PM
Surr: DNOP	113	69-147		%Rec	1	1/10/2024 9:17:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/10/2024 8:33:00 PM
Surr: BFB	105	15-244		%Rec	1	1/10/2024 8:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 8:33:00 PM
Toluene	ND	0.047		mg/Kg	1	1/10/2024 8:33:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/10/2024 8:33:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/10/2024 8:33:00 PM
Surr: 4-Bromofluorobenzene	97.0	39.1-146		%Rec	1	1/10/2024 8:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 7:30:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401304

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-192 0'

Project: Prometheus

Collection Date: 1/6/2024 2:50:00 PM

Lab ID: 2401304-021

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/11/2024 6:41:11 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/11/2024 6:41:11 PM
Surr: DNOP	106	69-147		%Rec	1	1/11/2024 6:41:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/10/2024 5:01:11 PM
Surr: BFB	109	15-244		%Rec	1	1/10/2024 5:01:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/10/2024 5:01:11 PM
Toluene	ND	0.050		mg/Kg	1	1/10/2024 5:01:11 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/10/2024 5:01:11 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/10/2024 5:01:11 PM
Surr: 4-Bromofluorobenzene	98.4	39.1-146		%Rec	1	1/10/2024 5:01:11 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 8:32:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401304-022

Client Sample ID: BS23-193 0'
Collection Date: 1/6/2024 2:55:00 PM
Received Date: 1/9/2024 7:30:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/11/2024 8:14:10 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/11/2024 8:14:10 PM
Surr: DNOP	104	69-147		%Rec	1	1/11/2024 8:14:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2024 6:13:14 PM
Surr: BFB	110	15-244		%Rec	1	1/10/2024 6:13:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/10/2024 6:13:14 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2024 6:13:14 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2024 6:13:14 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/10/2024 6:13:14 PM
Surr: 4-Bromofluorobenzene	99.3	39.1-146		%Rec	1	1/10/2024 6:13:14 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 8:44:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-194 0'

Project: Prometheus

Collection Date: 1/6/2024 2:55:00 PM

Lab ID: 2401304-023

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/11/2024 8:37:21 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/11/2024 8:37:21 PM
Surr: DNOP	107	69-147		%Rec	1	1/11/2024 8:37:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2024 7:24:16 PM
Surr: BFB	108	15-244		%Rec	1	1/10/2024 7:24:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/10/2024 7:24:16 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2024 7:24:16 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2024 7:24:16 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2024 7:24:16 PM
Surr: 4-Bromofluorobenzene	98.0	39.1-146		%Rec	1	1/10/2024 7:24:16 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 8:57:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401304

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-195 0'
Project: Prometheus Collection Date: 1/6/2024 3:00:00 PM
Lab ID: 2401304-024 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/11/2024 9:00:29 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 9:00:29 PM
Surr: DNOP	103	69-147		%Rec	1	1/11/2024 9:00:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2024 7:48:19 PM
Surr: BFB	107	15-244		%Rec	1	1/10/2024 7:48:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/10/2024 7:48:19 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2024 7:48:19 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2024 7:48:19 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2024 7:48:19 PM
Surr: 4-Bromofluorobenzene	97.3	39.1-146		%Rec	1	1/10/2024 7:48:19 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 9:34:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401304-025

Client Sample ID: BS23-196 0'
Collection Date: 1/6/2024 3:00:00 PM
Received Date: 1/9/2024 7:30:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/11/2024 9:23:45 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 9:23:45 PM
Surr: DNOP	103	69-147		%Rec	1	1/11/2024 9:23:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/10/2024 8:11:52 PM
Surr: BFB	108	15-244		%Rec	1	1/10/2024 8:11:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/10/2024 8:11:52 PM
Toluene	ND	0.047		mg/Kg	1	1/10/2024 8:11:52 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/10/2024 8:11:52 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/10/2024 8:11:52 PM
Surr: 4-Bromofluorobenzene	98.1	39.1-146		%Rec	1	1/10/2024 8:11:52 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 10:36:22 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401304-026

Client Sample ID: BS23-197 0'
Collection Date: 1/6/2024 3:05:00 PM
Received Date: 1/9/2024 7:30:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/11/2024 9:46:58 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/11/2024 9:46:58 PM
Surr: DNOP	105	69-147		%Rec	1	1/11/2024 9:46:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2024 8:35:25 PM
Surr: BFB	106	15-244		%Rec	1	1/10/2024 8:35:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/10/2024 8:35:25 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2024 8:35:25 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2024 8:35:25 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/10/2024 8:35:25 PM
Surr: 4-Bromofluorobenzene	96.2	39.1-146		%Rec	1	1/10/2024 8:35:25 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 10:48:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2401304

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-198 0'

Project: Prometheus

Collection Date: 1/6/2024 3:05:00 PM

Lab ID: 2401304-027

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/11/2024 10:10:19 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 10:10:19 PM
Surr: DNOP	105	69-147		%Rec	1	1/11/2024 10:10:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/10/2024 8:59:00 PM
Surr: BFB	108	15-244		%Rec	1	1/10/2024 8:59:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/10/2024 8:59:00 PM
Toluene	ND	0.047		mg/Kg	1	1/10/2024 8:59:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/10/2024 8:59:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/10/2024 8:59:00 PM
Surr: 4-Bromofluorobenzene	98.9	39.1-146		%Rec	1	1/10/2024 8:59:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 11:01:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401304

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-199 0'
Project: Prometheus Collection Date: 1/6/2024 3:10:00 PM
Lab ID: 2401304-028 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/11/2024 10:33:32 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/11/2024 10:33:32 PM
Surr: DNOP	105	69-147		%Rec	1	1/11/2024 10:33:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2024 9:22:33 PM
Surr: BFB	107	15-244		%Rec	1	1/10/2024 9:22:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/10/2024 9:22:33 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2024 9:22:33 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2024 9:22:33 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2024 9:22:33 PM
Surr: 4-Bromofluorobenzene	97.1	39.1-146		%Rec	1	1/10/2024 9:22:33 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 11:13:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401304

15-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-79835	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 79835	RunNo: 102351
Prep Date: 1/10/2024	Analysis Date: 1/10/2024	SeqNo: 3780593 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-79835	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 79835	RunNo: 102351
Prep Date: 1/10/2024	Analysis Date: 1/11/2024	SeqNo: 3780594 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 95.0 90 110

Sample ID: MB-79847	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 79847	RunNo: 102373
Prep Date: 1/10/2024	Analysis Date: 1/10/2024	SeqNo: 3780755 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-79847	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 79847	RunNo: 102373
Prep Date: 1/10/2024	Analysis Date: 1/10/2024	SeqNo: 3780756 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 92.3 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401304

15-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2401304-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-172 0'	Batch ID: 79819	RunNo: 102350								
Prep Date: 1/10/2024	Analysis Date: 1/10/2024	SeqNo: 3780702		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.3	46.55	0	92.7	54.2	135			
Surr: DNOP	4.8		4.655		103	69	147			

Sample ID: 2401304-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-172 0'	Batch ID: 79819	RunNo: 102350								
Prep Date: 1/10/2024	Analysis Date: 1/10/2024	SeqNo: 3780703		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.2	46.21	0	95.4	54.2	135	2.07	29.2	
Surr: DNOP	4.8		4.621		103	69	147	0	0	

Sample ID: LCS-79819	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79819	RunNo: 102350								
Prep Date: 1/10/2024	Analysis Date: 1/10/2024	SeqNo: 3780725		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.4	61.9	130			
Surr: DNOP	5.1		5.000		102	69	147			

Sample ID: MB-79819	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79819	RunNo: 102350								
Prep Date: 1/10/2024	Analysis Date: 1/10/2024	SeqNo: 3780729		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	69	147			

Sample ID: MB-79820	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79820	RunNo: 102404								
Prep Date: 1/10/2024	Analysis Date: 1/11/2024	SeqNo: 3782050		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401304

15-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-79820	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79820	RunNo: 102404								
Prep Date: 1/10/2024	Analysis Date: 1/11/2024	SeqNo: 3782051	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	61.9	130			
Surr: DNOP	5.3		5.000		106	69	147			

Sample ID: 2401304-021AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-192 0'	Batch ID: 79820	RunNo: 102404								
Prep Date: 1/10/2024	Analysis Date: 1/11/2024	SeqNo: 3782053	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.3	46.43	0	96.8	54.2	135			
Surr: DNOP	5.0		4.643		107	69	147			

Sample ID: 2401304-021AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-192 0'	Batch ID: 79820	RunNo: 102404								
Prep Date: 1/10/2024	Analysis Date: 1/11/2024	SeqNo: 3782054	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.3	46.51	0	96.6	54.2	135	0.0328	29.2	
Surr: DNOP	5.0		4.651		107	69	147	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401304

15-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: ics-79801	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 79801			RunNo: 102347						
Prep Date: 1/9/2024	Analysis Date: 1/10/2024			SeqNo: 3780163		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.6	70	130			
Surr: BFB	2200		1000		224	15	244			

Sample ID: mb-79801	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 79801			RunNo: 102347						
Prep Date: 1/9/2024	Analysis Date: 1/10/2024			SeqNo: 3780164		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		112	15	244			

Sample ID: 2401304-021ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS23-192 0'	Batch ID: 79801			RunNo: 102347						
Prep Date: 1/9/2024	Analysis Date: 1/10/2024			SeqNo: 3780167		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	70	130			
Surr: BFB	2300		1000		230	15	244			

Sample ID: 2401304-021amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS23-192 0'	Batch ID: 79801			RunNo: 102347						
Prep Date: 1/9/2024	Analysis Date: 1/10/2024			SeqNo: 3780168		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.68	0	104	70	130	0.285	20	
Surr: BFB	2300		987.2		228	15	244	0	0	

Sample ID: ics-79796	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 79796			RunNo: 102368						
Prep Date: 1/9/2024	Analysis Date: 1/10/2024			SeqNo: 3780321		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.1	70	130			
Surr: BFB	2200		1000		220	15	244			

Sample ID: mb-79796	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 79796			RunNo: 102368						
Prep Date: 1/9/2024	Analysis Date: 1/10/2024			SeqNo: 3780322		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401304

15-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: mb-79796	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 79796		RunNo: 102368							
Prep Date: 1/9/2024	Analysis Date: 1/10/2024		SeqNo: 3780322		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	15	244			

Sample ID: 2401304-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BS23-172 0'	Batch ID: 79796		RunNo: 102368							
Prep Date: 1/9/2024	Analysis Date: 1/10/2024		SeqNo: 3780324		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.37	0	86.7	70	130			
Surr: BFB	2200		974.7		222	15	244			

Sample ID: 2401304-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BS23-172 0'	Batch ID: 79796		RunNo: 102368							
Prep Date: 1/9/2024	Analysis Date: 1/10/2024		SeqNo: 3780325		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.51	0	84.8	70	130	1.61	20	
Surr: BFB	2100		980.4		214	15	244	0	0	

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401304

15-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-79801	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 79801	RunNo: 102347								
Prep Date: 1/9/2024	Analysis Date: 1/10/2024	SeqNo: 3780195	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	70	130			
Toluene	0.93	0.050	1.000	0	93.4	70	130			
Ethylbenzene	0.96	0.050	1.000	0	95.5	70	130			
Xylenes, Total	2.9	0.10	3.000	0	96.0	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: mb-79801	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 79801	RunNo: 102347								
Prep Date: 1/9/2024	Analysis Date: 1/10/2024	SeqNo: 3780196	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	39.1	146			

Sample ID: 2401304-022ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-193 0'	Batch ID: 79801	RunNo: 102347								
Prep Date: 1/9/2024	Analysis Date: 1/10/2024	SeqNo: 3780199	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9470	0	92.2	70	130			
Toluene	0.89	0.047	0.9470	0	94.5	70	130			
Ethylbenzene	0.91	0.047	0.9470	0	96.4	70	130			
Xylenes, Total	2.8	0.095	2.841	0	97.3	70	130			
Surr: 4-Bromofluorobenzene	0.95		0.9470		99.9	39.1	146			

Sample ID: 2401304-022amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-193 0'	Batch ID: 79801	RunNo: 102347								
Prep Date: 1/9/2024	Analysis Date: 1/10/2024	SeqNo: 3780200	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9515	0	96.6	70	130	5.16	20	
Toluene	0.93	0.048	0.9515	0	97.9	70	130	4.09	20	
Ethylbenzene	0.95	0.048	0.9515	0	99.7	70	130	3.79	20	
Xylenes, Total	2.9	0.095	2.854	0	99.9	70	130	3.16	20	
Surr: 4-Bromofluorobenzene	0.99		0.9515		104	39.1	146	0	0	

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401304

15-Jan-24

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: Ics-79796	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 79796	RunNo: 102368								
Prep Date: 1/9/2024	Analysis Date: 1/10/2024	SeqNo: 3780375	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.1	70	130			
Toluene	0.90	0.050	1.000	0	90.0	70	130			
Ethylbenzene	0.91	0.050	1.000	0	91.5	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.1	70	130			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	39.1	146			

Sample ID: mb-79796	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 79796	RunNo: 102368								
Prep Date: 1/9/2024	Analysis Date: 1/10/2024	SeqNo: 3780376	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	39.1	146			

Sample ID: 2401304-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-173 0'	Batch ID: 79796	RunNo: 102368								
Prep Date: 1/9/2024	Analysis Date: 1/10/2024	SeqNo: 3780379	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9747	0	91.2	70	130			
Toluene	0.89	0.049	0.9747	0	91.5	70	130			
Ethylbenzene	0.92	0.049	0.9747	0	93.9	70	130			
Xylenes, Total	2.8	0.097	2.924	0	94.5	70	130			
Surr: 4-Bromofluorobenzene	0.95		0.9747		97.7	39.1	146			

Sample ID: 2401304-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-173 0'	Batch ID: 79796	RunNo: 102368								
Prep Date: 1/9/2024	Analysis Date: 1/10/2024	SeqNo: 3780380	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9653	0	94.7	70	130	2.81	20	
Toluene	0.92	0.048	0.9653	0	95.6	70	130	3.44	20	
Ethylbenzene	0.95	0.048	0.9653	0	98.6	70	130	3.90	20	
Xylenes, Total	2.9	0.097	2.896	0	98.8	70	130	3.47	20	
Surr: 4-Bromofluorobenzene	0.94		0.9653		97.3	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 35 of 35



Environment Testin

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2401304

RcptNo: 1

Received By: Juan Rojas

1/9/2024 7:30:00 AM

Completed By: Cheyenne Cason

1/9/2024 7:42:19 AM

Reviewed By:

1-9-24

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

m1/9/24

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good	Not Present	Yogi		

by OCD: 2/8/2024 6:26:45 PM

Chain-of-Custody Record

Client: Vertex	<input type="checkbox"/> Standard X Rush_72-hour rush
	Project Name:
Mailing Address:	Prometheus
	Project #:
Phone #:	23E-03329
email or Fax#:	Project Manager:
QA/QC Package:	Sally Carttar
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)	
Accreditation: <input type="checkbox"/> Az Compliance	Sampler: L. Pullman
<input type="checkbox"/> NELAC <input type="checkbox"/> Other _____	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> EDD (Type)	# of Coolers: 1 4095

Turn-Around Time:	
<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush_72-hour rush
Project Name:	
Prometheus	
Project #:	
23E-03329	
Project Manager:	
Sally Carttar	
Sampler: L. Pullman	
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
# of Coolers:	1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Analysis Request

Date	Time	Matrix	Sample Name	Cooler Temp (including CF): 0.6-0.7 = 0.5			BTEX / MT	TPH:8015D	8081 Pestic	EDB (Metho	PAHs by 83	RCRA 8 Mda	Cl, F, Br, I	8260 (VOA	8270 (Semi	Total Colifo					
				Container Type and #	Preservative Type	HEAL No.															
01/06/24	14:00	Soil	BS23-172 0'	1, 4oz jar		CC1	X	X					X								
01/06/24	14:05	Soil	BS23-173 0'	1, 4oz jar		CC2	X	X					X								
01/06/24	14:05	Soil	BS23-174 0'	1, 4oz jar		CC3	X	X					X								
01/06/24	14:10	Soil	BS23-175 0'	1, 4oz jar		CC4	X	X					X								
01/06/24	14:10	Soil	BS23-176 0'	1, 4oz jar		CC5	X	X					X								
01/06/24	14:15	Soil	BS23-177 0'	1, 4oz jar		CC6	X	X					X								
01/06/24	14:15	Soil	BS23-178 0'	1, 4oz jar		CC7	X	X					X								
01/06/24	14:20	Soil	BS23-179 0'	1, 4oz jar		CC8	X	X					X								
01/06/24	14:20	Soil	BS23-180 0'	1, 4oz jar		CC9	X	X					X								
01/06/24	14:25	Soil	BS23-181 0'	1, 4oz jar		010	X	X					X								
01/06/24	14:25	Soil	BS23-182 0'	1, 4oz jar		011	X	X					X								
01/06/24	14:30	Soil	BS23-183 0'	1, 4oz jar		012	X	X					X								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1-8-24	07:00	Jalen Pulkkinen	<i>[Signature]</i>		1/8/24	
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1/8/24	1900	<i>[Signature]</i>	<i>[Signature]</i>		1/8/24	7:30

Remarks:
Ace Fluid Solutions
cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report
Base samples can remain labeled BS23

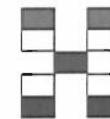
by OCD: 2/8/2024 6:26:45 PM

Chain-of-Custody Record

Client: Vertex	<input type="checkbox"/> Standard X Rush_72-hour rush
	Project Name:
Mailing Address:	Prometheus
	Project #:
Phone #:	23E-03329
email or Fax#:	Project Manager:
QA/QC Package:	Sally Carttar
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)	
Accreditation: <input type="checkbox"/> Az Compliance	Sampler: L. Pullman
<input type="checkbox"/> NELAC <input type="checkbox"/> Other _____	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> EDD (Type) _____	# of Coolers: 1

Date	Time	Matrix	Sample Name	Cooler Temp (including CF): 0.6 - 0.1 = 0.5		HEAL No. 2401304 2401309
				Container Type and #	Preservative Type	
01/06/24	14:30	Soil	BS23-184 0'	1, 4oz jar		013
01/06/24	14:35	Soil	BS23-185 0'	1, 4oz jar		014
01/06/24	14:35	Soil	BS23-186 0'	1, 4oz jar		015
01/06/24	14:40	Soil	BS23-187 0'	1, 4oz jar		016
01/06/24	14:40	Soil	BS23-188 0'	1, 4oz jar		017
01/06/24	14:45	Soil	BS23-189 0'	1, 4oz jar		018
01/06/24	14:45	Soil	BS23-190 0'	1, 4oz jar		019
01/06/24	14:50	Soil	BS23-191 0'	1, 4oz jar		020
01/06/24	14:50	Soil	BS23-192 0'	1, 4oz jar		021
01/06/24	14:55	Soil	BS23-193 0'	1, 4oz jar		022
01/06/24	14:55	Soil	BS23-194 0'	1, 4oz jar		023
01/06/24	15:00	Soil	BS23-195 0'	1, 4oz jar		024

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1-8-24	0700	[Signature]	[Signature]		1/8/24	0700
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1/8/24	1900	[Signature]	[Signature]		1/9/24	7:30



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks:
Ace Fluid Solutions
cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report
Base samples can remain labeled BS23

2/3

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Received by: **OCD: 2/8/2024 6:26:45 PM**

Chain-of-Custody Record

Client: Vertex	Turn-Around Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush_72-hour rush
	Project Name:
Mailing Address:	Prometheus
	Project #:
Phone #:	23E-03329
email or Fax#:	Project Manager:
QA/QC Package: <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)	Sally Carttar
Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other _____	Sampler: L. Pullman
<input type="checkbox"/> EDD (Type) _____	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	# of Coolers: 1 4095

[illegible]

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1-8-24	07:00	<i>[Signature]</i>	<i>[Signature]</i>		1/8/24	0700
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1/8/24	1900	<i>[Signature]</i>	<i>[Signature]</i>		1/9/24	7:30

[illegible]

Remarks:
Ace Fluid Solutions
cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report
Base samples can remain labeled BS23

3/5

Released to Imaging: 3/1/2024 7:19:02 AM



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

January 15, 2024

Sally Carttar

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2401305

Dear Sally Carttar:

Eurofins Environment Testing South Central, LLC received 35 sample(s) on 1/9/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-200 0'
Project: Prometheus Collection Date: 1/7/2024 7:45:00 AM
Lab ID: 2401305-001 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/11/2024 10:56:49 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 10:56:49 PM
Surr: DNOP	108	69-147		%Rec	1	1/11/2024 10:56:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2024 9:46:13 PM
Surr: BFB	110	15-244		%Rec	1	1/10/2024 9:46:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/10/2024 9:46:13 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2024 9:46:13 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2024 9:46:13 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/10/2024 9:46:13 PM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	1/10/2024 9:46:13 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 11:26:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-201 0'

Project: Prometheus

Collection Date: 1/7/2024 7:45:00 AM

Lab ID: 2401305-002

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	12	9.5		mg/Kg	1	1/11/2024 11:20:06 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 11:20:06 PM
Surr: DNOP	106	69-147		%Rec	1	1/11/2024 11:20:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2024 10:09:54 PM
Surr: BFB	105	15-244		%Rec	1	1/10/2024 10:09:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/10/2024 10:09:54 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2024 10:09:54 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2024 10:09:54 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/10/2024 10:09:54 PM
Surr: 4-Bromofluorobenzene	95.8	39.1-146		%Rec	1	1/10/2024 10:09:54 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 11:38:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401305-003

Client Sample ID: BS23-202 0'
Collection Date: 1/7/2024 7:50:00 AM
Received Date: 1/9/2024 7:30:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/12/2024 12:06:38 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2024 12:06:38 AM
Surr: DNOP	106	69-147		%Rec	1	1/12/2024 12:06:38 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2024 10:57:18 PM
Surr: BFB	107	15-244		%Rec	1	1/10/2024 10:57:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/10/2024 10:57:18 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2024 10:57:18 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2024 10:57:18 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2024 10:57:18 PM
Surr: 4-Bromofluorobenzene	96.8	39.1-146		%Rec	1	1/10/2024 10:57:18 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/10/2024 11:50:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401305
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-203 0'
Project: Prometheus Collection Date: 1/7/2024 7:50:00 AM
Lab ID: 2401305-004 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/12/2024 12:29:51 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/12/2024 12:29:51 AM
Surr: DNOP	107	69-147		%Rec	1	1/12/2024 12:29:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/10/2024 11:21:02 PM
Surr: BFB	107	15-244		%Rec	1	1/10/2024 11:21:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/10/2024 11:21:02 PM
Toluene	ND	0.047		mg/Kg	1	1/10/2024 11:21:02 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/10/2024 11:21:02 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/10/2024 11:21:02 PM
Surr: 4-Bromofluorobenzene	97.0	39.1-146		%Rec	1	1/10/2024 11:21:02 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 12:03:15 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-204 0'
Project: Prometheus Collection Date: 1/7/2024 7:55:00 AM
Lab ID: 2401305-005 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/12/2024 12:53:06 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2024 12:53:06 AM
Surr: DNOP	106	69-147		%Rec	1	1/12/2024 12:53:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/10/2024 11:44:50 PM
Surr: BFB	105	15-244		%Rec	1	1/10/2024 11:44:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/10/2024 11:44:50 PM
Toluene	ND	0.046		mg/Kg	1	1/10/2024 11:44:50 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/10/2024 11:44:50 PM
Xylenes, Total	ND	0.093		mg/Kg	1	1/10/2024 11:44:50 PM
Surr: 4-Bromofluorobenzene	94.9	39.1-146		%Rec	1	1/10/2024 11:44:50 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 12:15:39 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401305-006

Client Sample ID: BS23-205 0'
Collection Date: 1/7/2024 7:55:00 AM
Received Date: 1/9/2024 7:30:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/12/2024 1:16:17 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2024 1:16:17 AM
Surr: DNOP	109	69-147		%Rec	1	1/12/2024 1:16:17 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2024 12:08:45 AM
Surr: BFB	105	15-244		%Rec	1	1/11/2024 12:08:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/11/2024 12:08:45 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2024 12:08:45 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2024 12:08:45 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/11/2024 12:08:45 AM
Surr: 4-Bromofluorobenzene	94.8	39.1-146		%Rec	1	1/11/2024 12:08:45 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 12:28:04 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401305
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-206 0'
Project: Prometheus Collection Date: 1/7/2024 8:00:00 AM
Lab ID: 2401305-007 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/12/2024 1:39:29 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/12/2024 1:39:29 AM
Surr: DNOP	111	69-147		%Rec	1	1/12/2024 1:39:29 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2024 12:32:48 AM
Surr: BFB	106	15-244		%Rec	1	1/11/2024 12:32:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/11/2024 12:32:48 AM
Toluene	ND	0.048		mg/Kg	1	1/11/2024 12:32:48 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2024 12:32:48 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/11/2024 12:32:48 AM
Surr: 4-Bromofluorobenzene	97.4	39.1-146		%Rec	1	1/11/2024 12:32:48 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 1:05:18 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-207 0'
Project: Prometheus Collection Date: 1/7/2024 8:00:00 AM
Lab ID: 2401305-008 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/12/2024 2:02:42 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2024 2:02:42 AM
Surr: DNOP	105	69-147		%Rec	1	1/12/2024 2:02:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2024 12:56:46 AM
Surr: BFB	107	15-244		%Rec	1	1/11/2024 12:56:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2024 12:56:46 AM
Toluene	ND	0.050		mg/Kg	1	1/11/2024 12:56:46 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2024 12:56:46 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/11/2024 12:56:46 AM
Surr: 4-Bromofluorobenzene	98.7	39.1-146		%Rec	1	1/11/2024 12:56:46 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	140	60		mg/Kg	20	1/11/2024 1:17:42 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401305
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-208 0'
Project: Prometheus Collection Date: 1/7/2024 8:05:00 AM
Lab ID: 2401305-009 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/12/2024 2:25:59 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/12/2024 2:25:59 AM
Surr: DNOP	103	69-147		%Rec	1	1/12/2024 2:25:59 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2024 1:20:32 AM
Surr: BFB	107	15-244		%Rec	1	1/11/2024 1:20:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/11/2024 1:20:32 AM
Toluene	ND	0.048		mg/Kg	1	1/11/2024 1:20:32 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2024 1:20:32 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/11/2024 1:20:32 AM
Surr: 4-Bromofluorobenzene	98.0	39.1-146		%Rec	1	1/11/2024 1:20:32 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	140	60		mg/Kg	20	1/11/2024 1:30:07 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401305
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-209 0'
Project: Prometheus Collection Date: 1/7/2024 8:05:00 AM
Lab ID: 2401305-010 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/12/2024 2:49:10 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2024 2:49:10 AM
Surr: DNOP	102	69-147		%Rec	1	1/12/2024 2:49:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2024 1:44:12 AM
Surr: BFB	108	15-244		%Rec	1	1/11/2024 1:44:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/11/2024 1:44:12 AM
Toluene	ND	0.048		mg/Kg	1	1/11/2024 1:44:12 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2024 1:44:12 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/11/2024 1:44:12 AM
Surr: 4-Bromofluorobenzene	98.9	39.1-146		%Rec	1	1/11/2024 1:44:12 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 1:42:32 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-210 0'
Project: Prometheus Collection Date: 1/7/2024 8:10:00 AM
Lab ID: 2401305-011 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/12/2024 3:12:26 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2024 3:12:26 AM
Surr: DNOP	104	69-147		%Rec	1	1/12/2024 3:12:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2024 2:07:58 AM
Surr: BFB	107	15-244		%Rec	1	1/11/2024 2:07:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/11/2024 2:07:58 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2024 2:07:58 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2024 2:07:58 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/11/2024 2:07:58 AM
Surr: 4-Bromofluorobenzene	97.8	39.1-146		%Rec	1	1/11/2024 2:07:58 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 1:54:56 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401305
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-211 0'
Project: Prometheus Collection Date: 1/7/2024 8:10:00 AM
Lab ID: 2401305-012 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/12/2024 3:35:38 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/12/2024 3:35:38 AM
Surr: DNOP	101	69-147		%Rec	1	1/12/2024 3:35:38 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2024 2:31:57 AM
Surr: BFB	107	15-244		%Rec	1	1/11/2024 2:31:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2024 2:31:57 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2024 2:31:57 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2024 2:31:57 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2024 2:31:57 AM
Surr: 4-Bromofluorobenzene	96.3	39.1-146		%Rec	1	1/11/2024 2:31:57 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 2:07:21 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401305-013

Client Sample ID: BS23-212 0'
Collection Date: 1/7/2024 8:15:00 AM
Received Date: 1/9/2024 7:30:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/11/2024 3:09:23 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/11/2024 3:09:23 AM
Surr: DNOP	98.0	69-147		%Rec	1	1/11/2024 3:09:23 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2024 10:44:00 PM
Surr: BFB	109	15-244		%Rec	1	1/10/2024 10:44:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2024 10:44:00 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2024 10:44:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2024 10:44:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2024 10:44:00 PM
Surr: 4-Bromofluorobenzene	99.6	39.1-146		%Rec	1	1/10/2024 10:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	96	60		mg/Kg	20	1/11/2024 10:57:30 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401305-014

Client Sample ID: BS23-213 0'
Collection Date: 1/7/2024 8:15:00 AM
Received Date: 1/9/2024 7:30:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/11/2024 3:19:54 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 3:19:54 AM
Surr: DNOP	103	69-147		%Rec	1	1/11/2024 3:19:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2024 11:50:00 PM
Surr: BFB	104	15-244		%Rec	1	1/10/2024 11:50:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/10/2024 11:50:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2024 11:50:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2024 11:50:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/10/2024 11:50:00 PM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	1/10/2024 11:50:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 12:24:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401305
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-214 0'
Project: Prometheus Collection Date: 1/7/2024 8:20:00 AM
Lab ID: 2401305-015 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/11/2024 3:30:26 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 3:30:26 AM
Surr: DNOP	95.5	69-147		%Rec	1	1/11/2024 3:30:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2024 12:56:00 AM
Surr: BFB	108	15-244		%Rec	1	1/11/2024 12:56:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/11/2024 12:56:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2024 12:56:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2024 12:56:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/11/2024 12:56:00 AM
Surr: 4-Bromofluorobenzene	99.8	39.1-146		%Rec	1	1/11/2024 12:56:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 12:36:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401305-016

Client Sample ID: BS23-215 0'
Collection Date: 1/7/2024 8:20:00 AM
Received Date: 1/9/2024 7:30:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/11/2024 3:41:01 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 3:41:01 AM
Surr: DNOP	97.4	69-147		%Rec	1	1/11/2024 3:41:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2024 1:18:00 AM
Surr: BFB	111	15-244		%Rec	1	1/11/2024 1:18:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/11/2024 1:18:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2024 1:18:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2024 1:18:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/11/2024 1:18:00 AM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	1/11/2024 1:18:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 12:49:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-216 0'

Project: Prometheus

Collection Date: 1/7/2024 8:25:00 AM

Lab ID: 2401305-017

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/11/2024 3:51:37 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/11/2024 3:51:37 AM
Surr: DNOP	96.7	69-147		%Rec	1	1/11/2024 3:51:37 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/11/2024 1:39:00 AM
Surr: BFB	109	15-244		%Rec	1	1/11/2024 1:39:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	1/11/2024 1:39:00 AM
Toluene	ND	0.047		mg/Kg	1	1/11/2024 1:39:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/11/2024 1:39:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	1/11/2024 1:39:00 AM
Surr: 4-Bromofluorobenzene	99.4	39.1-146		%Rec	1	1/11/2024 1:39:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 1:01:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.

Project: Prometheus

Lab ID: 2401305-018

Client Sample ID: BS23-217 0'

Collection Date: 1/7/2024 8:25:00 AM

Received Date: 1/9/2024 7:30:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/11/2024 4:02:15 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 4:02:15 AM
Surr: DNOP	101	69-147		%Rec	1	1/11/2024 4:02:15 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2024 2:01:00 AM
Surr: BFB	116	15-244		%Rec	1	1/11/2024 2:01:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/11/2024 2:01:00 AM
Toluene	ND	0.048		mg/Kg	1	1/11/2024 2:01:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2024 2:01:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/11/2024 2:01:00 AM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	1/11/2024 2:01:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	59		mg/Kg	20	1/11/2024 1:13:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401305
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-218 0'
Project: Prometheus Collection Date: 1/7/2024 8:30:00 AM
Lab ID: 2401305-019 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/11/2024 4:12:53 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/11/2024 4:12:53 AM
Surr: DNOP	103	69-147		%Rec	1	1/11/2024 4:12:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2024 2:23:00 AM
Surr: BFB	110	15-244		%Rec	1	1/11/2024 2:23:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/11/2024 2:23:00 AM
Toluene	ND	0.048		mg/Kg	1	1/11/2024 2:23:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2024 2:23:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/11/2024 2:23:00 AM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	1/11/2024 2:23:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	99	60		mg/Kg	20	1/11/2024 1:26:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401305
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-219 0'
Project: Prometheus Collection Date: 1/7/2024 8:30:00 AM
Lab ID: 2401305-020 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/11/2024 4:23:30 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/11/2024 4:23:30 AM
Surr: DNOP	99.4	69-147		%Rec	1	1/11/2024 4:23:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2024 2:45:00 AM
Surr: BFB	109	15-244		%Rec	1	1/11/2024 2:45:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/11/2024 2:45:00 AM
Toluene	ND	0.048		mg/Kg	1	1/11/2024 2:45:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2024 2:45:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/11/2024 2:45:00 AM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	1/11/2024 2:45:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 1:38:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-220 0'
Project: Prometheus Collection Date: 1/7/2024 8:35:00 AM
Lab ID: 2401305-021 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/11/2024 4:34:06 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 4:34:06 AM
Surr: DNOP	104	69-147		%Rec	1	1/11/2024 4:34:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/11/2024 3:07:00 AM
Surr: BFB	112	15-244		%Rec	1	1/11/2024 3:07:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	1/11/2024 3:07:00 AM
Toluene	ND	0.046		mg/Kg	1	1/11/2024 3:07:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	1/11/2024 3:07:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	1/11/2024 3:07:00 AM
Surr: 4-Bromofluorobenzene	99.1	39.1-146		%Rec	1	1/11/2024 3:07:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	59		mg/Kg	20	1/11/2024 1:51:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401305
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-221 0'
Project: Prometheus Collection Date: 1/7/2024 8:35:00 AM
Lab ID: 2401305-022 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/11/2024 4:55:08 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 4:55:08 AM
Surr: DNOP	104	69-147		%Rec	1	1/11/2024 4:55:08 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/11/2024 3:29:00 AM
Surr: BFB	112	15-244		%Rec	1	1/11/2024 3:29:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	1/11/2024 3:29:00 AM
Toluene	ND	0.046		mg/Kg	1	1/11/2024 3:29:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	1/11/2024 3:29:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	1/11/2024 3:29:00 AM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	1/11/2024 3:29:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 2:03:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-222 0'
Project: Prometheus Collection Date: 1/7/2024 8:40:00 AM
Lab ID: 2401305-023 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/11/2024 5:05:38 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/11/2024 5:05:38 AM
Surr: DNOP	97.3	69-147		%Rec	1	1/11/2024 5:05:38 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2024 4:12:00 AM
Surr: BFB	112	15-244		%Rec	1	1/11/2024 4:12:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2024 4:12:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2024 4:12:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2024 4:12:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2024 4:12:00 AM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	1/11/2024 4:12:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 2:16:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401305
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-223 0'
Project: Prometheus Collection Date: 1/7/2024 8:40:00 AM
Lab ID: 2401305-024 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	1/11/2024 5:16:07 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/11/2024 5:16:07 AM
Surr: DNOP	97.2	69-147		%Rec	1	1/11/2024 5:16:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2024 4:34:00 AM
Surr: BFB	113	15-244		%Rec	1	1/11/2024 4:34:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2024 4:34:00 AM
Toluene	ND	0.050		mg/Kg	1	1/11/2024 4:34:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2024 4:34:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2024 4:34:00 AM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	1/11/2024 4:34:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 2:53:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-224 0'
Project: Prometheus Collection Date: 1/7/2024 8:45:00 AM
Lab ID: 2401305-025 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/11/2024 5:26:35 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/11/2024 5:26:35 AM
Surr: DNOP	98.2	69-147		%Rec	1	1/11/2024 5:26:35 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2024 4:56:00 AM
Surr: BFB	113	15-244		%Rec	1	1/11/2024 4:56:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/11/2024 4:56:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2024 4:56:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2024 4:56:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2024 4:56:00 AM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	1/11/2024 4:56:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	290	60		mg/Kg	20	1/11/2024 3:05:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-225 0'
Project: Prometheus Collection Date: 1/7/2024 8:45:00 AM
Lab ID: 2401305-026 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/11/2024 5:37:06 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/11/2024 5:37:06 AM
Surr: DNOP	97.9	69-147		%Rec	1	1/11/2024 5:37:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2024 5:18:00 AM
Surr: BFB	112	15-244		%Rec	1	1/11/2024 5:18:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2024 5:18:00 AM
Toluene	ND	0.050		mg/Kg	1	1/11/2024 5:18:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2024 5:18:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2024 5:18:00 AM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	1/11/2024 5:18:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	82	60		mg/Kg	20	1/11/2024 3:18:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401305
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-226 0'
Project: Prometheus Collection Date: 1/7/2024 8:50:00 AM
Lab ID: 2401305-027 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/11/2024 5:47:37 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 5:47:37 AM
Surr: DNOP	98.5	69-147		%Rec	1	1/11/2024 5:47:37 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2024 5:40:00 AM
Surr: BFB	110	15-244		%Rec	1	1/11/2024 5:40:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2024 5:40:00 AM
Toluene	ND	0.050		mg/Kg	1	1/11/2024 5:40:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2024 5:40:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2024 5:40:00 AM
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	1/11/2024 5:40:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	120	60		mg/Kg	20	1/11/2024 3:30:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-227 0'

Project: Prometheus

Collection Date: 1/7/2024 8:50:00 AM

Lab ID: 2401305-028

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	1/11/2024 5:58:09 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	1/11/2024 5:58:09 AM
Surr: DNOP	97.7	69-147		%Rec	1	1/11/2024 5:58:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2024 6:02:00 AM
Surr: BFB	115	15-244		%Rec	1	1/11/2024 6:02:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2024 6:02:00 AM
Toluene	ND	0.050		mg/Kg	1	1/11/2024 6:02:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2024 6:02:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2024 6:02:00 AM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	1/11/2024 6:02:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 3:42:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-228 0'
Project: Prometheus Collection Date: 1/7/2024 8:55:00 AM
Lab ID: 2401305-029 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/11/2024 6:08:47 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 6:08:47 AM
Surr: DNOP	98.3	69-147		%Rec	1	1/11/2024 6:08:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2024 6:24:00 AM
Surr: BFB	111	15-244		%Rec	1	1/11/2024 6:24:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2024 6:24:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2024 6:24:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2024 6:24:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2024 6:24:00 AM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	1/11/2024 6:24:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 3:55:14 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-229 0'

Project: Prometheus

Collection Date: 1/7/2024 8:55:00 AM

Lab ID: 2401305-030

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/11/2024 6:19:21 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/11/2024 6:19:21 AM
Surr: DNOP	101	69-147		%Rec	1	1/11/2024 6:19:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2024 6:45:00 AM
Surr: BFB	111	15-244		%Rec	1	1/11/2024 6:45:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/11/2024 6:45:00 AM
Toluene	ND	0.048		mg/Kg	1	1/11/2024 6:45:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2024 6:45:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/11/2024 6:45:00 AM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	1/11/2024 6:45:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 4:07:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-230 0'

Project: Prometheus

Collection Date: 1/7/2024 9:00:00 AM

Lab ID: 2401305-031

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/11/2024 6:30:01 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/11/2024 6:30:01 AM
Surr: DNOP	95.7	69-147		%Rec	1	1/11/2024 6:30:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2024 7:07:00 AM
Surr: BFB	115	15-244		%Rec	1	1/11/2024 7:07:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/11/2024 7:07:00 AM
Toluene	ND	0.048		mg/Kg	1	1/11/2024 7:07:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2024 7:07:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/11/2024 7:07:00 AM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	1/11/2024 7:07:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	69	60		mg/Kg	20	1/11/2024 4:20:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401305
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-231 0'
Project: Prometheus Collection Date: 1/7/2024 9:00:00 AM
Lab ID: 2401305-032 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/11/2024 6:40:42 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2024 6:40:42 AM
Surr: DNOP	106	69-147		%Rec	1	1/11/2024 6:40:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2024 7:29:00 AM
Surr: BFB	113	15-244		%Rec	1	1/11/2024 7:29:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/11/2024 7:29:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2024 7:29:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2024 7:29:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/11/2024 7:29:00 AM
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	1/11/2024 7:29:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	110	60		mg/Kg	20	1/11/2024 4:32:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-232 0'
Project: Prometheus Collection Date: 1/7/2024 9:05:00 AM
Lab ID: 2401305-033 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/10/2024 10:40:23 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/10/2024 10:40:23 PM
Surr: DNOP	103	69-147		%Rec	1	1/10/2024 10:40:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2024 11:54:00 AM
Surr: BFB	114	15-244		%Rec	1	1/11/2024 11:54:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2024 11:54:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2024 11:54:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2024 11:54:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2024 11:54:00 AM
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	1/11/2024 11:54:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 5:34:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401305
Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-233 0'
Project: Prometheus Collection Date: 1/7/2024 9:05:00 AM
Lab ID: 2401305-034 Matrix: SOIL Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/10/2024 11:11:30 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/10/2024 11:11:30 PM
Surr: DNOP	104	69-147		%Rec	1	1/10/2024 11:11:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2024 1:00:00 PM
Surr: BFB	114	15-244		%Rec	1	1/11/2024 1:00:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2024 1:00:00 PM
Toluene	ND	0.050		mg/Kg	1	1/11/2024 1:00:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2024 1:00:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/11/2024 1:00:00 PM
Surr: 4-Bromofluorobenzene	104	39.1-146		%Rec	1	1/11/2024 1:00:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 5:46:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401305

Date Reported: 1/15/2024

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-234 0'

Project: Prometheus

Collection Date: 1/7/2024 9:10:00 AM

Lab ID: 2401305-035

Matrix: SOIL

Received Date: 1/9/2024 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/10/2024 11:21:57 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/10/2024 11:21:57 PM
Surr: DNOP	104	69-147		%Rec	1	1/10/2024 11:21:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2024 2:06:00 PM
Surr: BFB	115	15-244		%Rec	1	1/11/2024 2:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2024 2:06:00 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2024 2:06:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2024 2:06:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2024 2:06:00 PM
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	1/11/2024 2:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/11/2024 5:59:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401305

15-Jan-24

Client: Vertex Resources Services, Inc.**Project:** Prometheus

Sample ID: MB-79847	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 79847		RunNo: 102373							
Prep Date: 1/10/2024	Analysis Date: 1/10/2024		SeqNo: 3780755		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79847	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 79847		RunNo: 102373							
Prep Date: 1/10/2024	Analysis Date: 1/10/2024		SeqNo: 3780756		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Sample ID: MB-79851	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 79851		RunNo: 102403							
Prep Date: 1/11/2024	Analysis Date: 1/11/2024		SeqNo: 3781724		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79851	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 79851		RunNo: 102403							
Prep Date: 1/11/2024	Analysis Date: 1/11/2024		SeqNo: 3781725		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.4	90	110			

Sample ID: MB-79869	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 79869		RunNo: 102403							
Prep Date: 1/11/2024	Analysis Date: 1/11/2024		SeqNo: 3781759		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79869	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 79869		RunNo: 102403							
Prep Date: 1/11/2024	Analysis Date: 1/11/2024		SeqNo: 3781760		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401305

15-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2401305-033AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BS23-232 0'		Batch ID: 79834		RunNo: 102350						
Prep Date: 1/10/2024		Analysis Date: 1/10/2024		SeqNo: 3780714		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.2	46.04	0	94.9	54.2	135			
Surr: DNOP	5.0		4.604		108	69	147			

Sample ID: 2401305-033AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BS23-232 0'		Batch ID: 79834		RunNo: 102350						
Prep Date: 1/10/2024		Analysis Date: 1/10/2024		SeqNo: 3780715		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.3	46.43	0	94.3	54.2	135	0.198	29.2	
Surr: DNOP	5.0		4.643		109	69	147	0	0	

Sample ID: LCS-79821		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS		Batch ID: 79821		RunNo: 102350						
Prep Date: 1/10/2024		Analysis Date: 1/10/2024		SeqNo: 3780727		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.4	61.9	130			
Surr: DNOP	5.3		5.000		106	69	147			

Sample ID: LCS-79834		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS		Batch ID: 79834		RunNo: 102350						
Prep Date: 1/10/2024		Analysis Date: 1/10/2024		SeqNo: 3780728		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.7	61.9	130			
Surr: DNOP	5.1		5.000		103	69	147			

Sample ID: MB-79821		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS		Batch ID: 79821		RunNo: 102350						
Prep Date: 1/10/2024		Analysis Date: 1/10/2024		SeqNo: 3780730		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		97.8	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401305
15-Jan-24

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: MB-79834	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79834	RunNo: 102350								
Prep Date: 1/10/2024	Analysis Date: 1/10/2024	SeqNo: 3780731			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	69	147			

Sample ID: 2401305-013AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-212 0'	Batch ID: 79821	RunNo: 102350								
Prep Date: 1/10/2024	Analysis Date: 1/11/2024	SeqNo: 3780802			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.3	46.69	0	98.8	54.2	135			
Surr: DNOP	4.7		4.669		101	69	147			

Sample ID: 2401305-013AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-212 0'	Batch ID: 79821	RunNo: 102350								
Prep Date: 1/10/2024	Analysis Date: 1/11/2024	SeqNo: 3780803			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.2	45.91	0	98.1	54.2	135	2.42	29.2	
Surr: DNOP	4.6		4.591		100	69	147	0	0	

Sample ID: MB-79820	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79820	RunNo: 102404								
Prep Date: 1/10/2024	Analysis Date: 1/11/2024	SeqNo: 3782050			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	69	147			

Sample ID: LCS-79820	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79820	RunNo: 102404								
Prep Date: 1/10/2024	Analysis Date: 1/11/2024	SeqNo: 3782051			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	61.9	130			
Surr: DNOP	5.3		5.000		106	69	147			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2401305
15-Jan-24

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: Ics-79801	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 79801			RunNo: 102347						
Prep Date: 1/9/2024	Analysis Date: 1/10/2024			SeqNo: 3780163		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.6	70	130			
Surr: BFB	2200		1000		224	15	244			

Sample ID: mb-79801	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 79801			RunNo: 102347						
Prep Date: 1/9/2024	Analysis Date: 1/10/2024			SeqNo: 3780164		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		112	15	244			

Sample ID: Ics-79814	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 79814			RunNo: 102368						
Prep Date: 1/9/2024	Analysis Date: 1/10/2024			SeqNo: 3780345		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.0	70	130			
Surr: BFB	2200		1000		222	15	244			

Sample ID: mb-79814	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 79814			RunNo: 102368						
Prep Date: 1/9/2024	Analysis Date: 1/10/2024			SeqNo: 3780346		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	15	244			

Sample ID: 2401305-013AMS	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS23-212 0'	Batch ID: 79814			RunNo: 102368						
Prep Date: 1/9/2024	Analysis Date: 1/10/2024			SeqNo: 3780442		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	24.25	0	97.8	70	130			
Surr: BFB	2300		969.9		235	15	244			

Sample ID: 2401305-013AMSD	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS23-212 0'	Batch ID: 79814			RunNo: 102368						
Prep Date: 1/9/2024	Analysis Date: 1/10/2024			SeqNo: 3780443		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	24.25	0	97.8	70	130			
Surr: BFB	2300		969.9		235	15	244			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401305
15-Jan-24

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: 2401305-013AMSD		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS23-212 0'		Batch ID: 79814		RunNo: 102368						
Prep Date: 1/9/2024		Analysis Date: 1/10/2024		SeqNo: 3780443		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	23.90	0	96.6	70	130	2.72	20	
Surr: BFB	2200		956.0		227	15	244	0	0	

Sample ID: 2401305-033ams		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS23-232 0'		Batch ID: 79829		RunNo: 102397						
Prep Date: 1/10/2024		Analysis Date: 1/11/2024		SeqNo: 3781631		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.56	0	95.4	70	130			
Surr: BFB	2400		982.3		240	15	244			

Sample ID: 2401305-033amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS23-232 0'		Batch ID: 79829		RunNo: 102397						
Prep Date: 1/10/2024		Analysis Date: 1/11/2024		SeqNo: 3781632		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.63	0	103	70	130	8.31	20	
Surr: BFB	2500		985.2		252	15	244	0	0	S

Sample ID: lcs-79829		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS		Batch ID: 79829		RunNo: 102397						
Prep Date: 1/10/2024		Analysis Date: 1/11/2024		SeqNo: 3781652		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.6	70	130			
Surr: BFB	2300		1000		233	15	244			

Sample ID: MB-79829		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS		Batch ID: 79829		RunNo: 102397						
Prep Date: 1/10/2024		Analysis Date: 1/11/2024		SeqNo: 3781653		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1200		1000		116	15	244			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401305

15-Jan-24

Client: Vertex Resources Services, Inc.**Project:** Prometheus

Sample ID: LCS-79801	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 79801		RunNo: 102347							
Prep Date: 1/9/2024	Analysis Date: 1/10/2024		SeqNo: 3780195		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	70	130			
Toluene	0.93	0.050	1.000	0	93.4	70	130			
Ethylbenzene	0.96	0.050	1.000	0	95.5	70	130			
Xylenes, Total	2.9	0.10	3.000	0	96.0	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: mb-79801	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 79801		RunNo: 102347							
Prep Date: 1/9/2024	Analysis Date: 1/10/2024		SeqNo: 3780196		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	39.1	146			

Sample ID: lcs-79814	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 79814		RunNo: 102368							
Prep Date: 1/9/2024	Analysis Date: 1/10/2024		SeqNo: 3780399		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.5	70	130			
Toluene	0.94	0.050	1.000	0	94.1	70	130			
Ethylbenzene	0.95	0.050	1.000	0	94.9	70	130			
Xylenes, Total	2.9	0.10	3.000	0	95.2	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	39.1	146			

Sample ID: mb-79814	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 79814		RunNo: 102368							
Prep Date: 1/9/2024	Analysis Date: 1/10/2024		SeqNo: 3780400		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.9	39.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401305

15-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2401305-014AMS		SampType: MS			TestCode: EPA Method 8021B: Volatiles					
Client ID: BS23-213 0'		Batch ID: 79814			RunNo: 102368					
Prep Date: 1/9/2024		Analysis Date: 1/11/2024			SeqNo: 3780450		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	0.9814	0	93.9	70	130			
Toluene	0.93	0.049	0.9814	0	94.9	70	130			
Ethylbenzene	0.95	0.049	0.9814	0	96.5	70	130			
Xylenes, Total	2.8	0.098	2.944	0	96.6	70	130			
Surr: 4-Bromofluorobenzene	0.96		0.9814		98.1	39.1	146			

Sample ID: 2401305-014AMSD		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: BS23-213 0'		Batch ID: 79814		RunNo: 102368						
Prep Date: 1/9/2024		Analysis Date: 1/11/2024		SeqNo: 3780451		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9814	0	99.7	70	130	5.98	20	
Toluene	0.99	0.049	0.9814	0	100	70	130	5.67	20	
Ethylbenzene	1.0	0.049	0.9814	0	103	70	130	6.39	20	
Xylenes, Total	3.0	0.098	2.944	0	103	70	130	6.20	20	
Surr: 4-Bromofluorobenzene	0.99		0.9814		101	39.1	146	0	0	

Sample ID: 2401305-034ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BS23-233 0'	Batch ID: 79829		RunNo: 102397							
Prep Date: 1/10/2024	Analysis Date: 1/11/2024		SeqNo: 3781659		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9921	0	95.3	70	130			
Toluene	0.95	0.050	0.9921	0	95.9	70	130			
Ethylbenzene	0.99	0.050	0.9921	0	99.4	70	130			
Xylenes, Total	3.0	0.099	2.976	0	100	70	130			
Surr: 4-Bromofluorobenzene	1.1		0.9921		109	39.1	146			

Sample ID: 2401305-034amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-233 0'	Batch ID: 79829	RunNo: 102397								
Prep Date: 1/10/2024	Analysis Date: 1/11/2024	SeqNo: 3781660		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9891	0	94.5	70	130	1.19	20	
Toluene	0.95	0.049	0.9891	0	96.2	70	130	0.00578	20	
Ethylbenzene	0.97	0.049	0.9891	0	98.4	70	130	1.33	20	
Xylenes, Total	2.9	0.099	2.967	0	98.7	70	130	1.85	20	
Surr: 4-Bromofluorobenzene	1.1		0.9891		107	39.1	146	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401305
15-Jan-24

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: MB-79829	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 79829	RunNo: 102397								
Prep Date: 1/10/2024	Analysis Date: 1/11/2024	SeqNo: 3781679	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	39.1	146			

Sample ID: LCS-79829	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 79829	RunNo: 102397								
Prep Date: 1/10/2024	Analysis Date: 1/11/2024	SeqNo: 3781681	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.7	70	130			
Toluene	0.90	0.050	1.000	0	90.4	70	130			
Ethylbenzene	0.92	0.050	1.000	0	92.0	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.3	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	39.1	146			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit



Environment Testin

Eurofins Environment Testing South
Central, LLC4901 Hawkins NE
Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2401305

RcptNo: 1

Received By: Juan Rojas

1/9/2024 7:30:00 AM

Completed By: Cheyenne Cason

1/9/2024 8:06:31 AM

Reviewed By:

JH 1-9-24

Juan Rojas

Cheyenne Cason

Chain of Custody1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐2. How was the sample delivered? CourierLog In3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐5. Sample(s) in proper container(s)? Yes ☒ No ☐6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐13. Is it clear what analyses were requested? Yes ☒ No ☐14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: JH 1/9/24

Special Handling (if applicable)15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

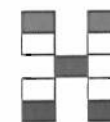
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good	Not Present	Yogi		

Chain-of-Custody Record

Client:	Vertex	Turn-Around Time:	<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush_72-hour rush
Mailing Address:		Project Name:	Prometheus
Phone #:		Project #:	23E-03329
email or Fax#:		Project Manager:	Sally Carttar
QA/QC Package:		Sampler:	L. Pullman
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other		# of Coolers:	1
<input type="checkbox"/> EDD (Type)		Cooler Temp (including CF):	0.6-0.1=0.5

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
01/07/24	7:45	Soil	BS23-200 0'	1, 4oz jar		001
01/07/24	7:45	Soil	BS23-201 0'	1, 4oz jar		002
01/07/24	7:50	Soil	BS23-202 0'	1, 4oz jar		003
01/07/24	7:50	Soil	BS23-203 0'	1, 4oz jar		004
01/07/24	7:55	Soil	BS23-204 0'	1, 4oz jar		005
01/07/24	7:55	Soil	BS23-205 0'	1, 4oz jar		006
01/07/24	8:00	Soil	BS23-206 0'	1, 4oz jar		007
01/07/24	8:00	Soil	BS23-207 0'	1, 4oz jar		008
01/07/24	8:05	Soil	BS23-208 0'	1, 4oz jar		009
01/07/24	8:05	Soil	BS23-209 0'	1, 4oz jar		010
01/07/24	8:10	Soil	BS23-210 0'	1, 4oz jar		011
01/07/24	8:10	Soil	BS23-211 0'	1, 4oz jar		012

Date:	Time:	Relinquished by:	Received by:	Via:	Date:	Time:
1-8-24	0730	[Signature]	[Signature]		1/8/24	0700
Date:	Time:	Relinquished by:	Received by:	Via:	Date:	Time:
1/8/24	1900	[Signature]	[Signature]		1/9/24	7:30



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)										
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													

Remarks:
 Ace Fluid Solutions
 cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report
 Base samples can remain labeled BS23

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

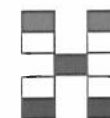
Chain-of-Custody Record

Client:	Vertex	Turn-Around Time:	<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush_72-hour rush
Mailing Address:		Project Name:	Prometheus
Phone #:		Project #:	23E-03329
email or Fax#:		Project Manager:	Sally Carttar
QA/QC Package:	<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)	Sampler:	L. Pullman
Accreditation:	<input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other	On Ice:	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> EDD (Type)		# of Coolers:	1

Cooler Temp (including CF): 0.6-0.1 = 0.5

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
01/07/24	8:15	Soil	BS23-212 0'	1, 4oz jar		013
01/07/24	8:15	Soil	BS23-213 0'	1, 4oz jar		014
01/07/24	8:20	Soil	BS23-214 0'	1, 4oz jar		015
01/07/24	8:20	Soil	BS23-215 0'	1, 4oz jar		016
01/07/24	8:25	Soil	BS23-216 0'	1, 4oz jar		017
01/07/24	8:25	Soil	BS23-217 0'	1, 4oz jar		018
01/07/24	8:30	Soil	BS23-218 0'	1, 4oz jar		019
01/07/24	8:30	Soil	BS23-219 0'	1, 4oz jar		020
01/07/24	8:35	Soil	BS23-220 0'	1, 4oz jar		021
01/07/24	8:35	Soil	BS23-221 0'	1, 4oz jar		022
01/07/24	8:40	Soil	BS23-222 0'	1, 4oz jar		023
01/07/24	8:40	Soil	BS23-223 0'	1, 4oz jar		024

Date:	Time:	Relinquished by:	Received by:	Via:	Date:	Time:
1-8-24	07:00	Sally Pullman	Amuniz		1/8/24	07:00
1/8/24	19:00	Amuniz	Amuniz		1/8/24	7:30



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)										
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													

Remarks:
 Ace Fluid Solutions
 cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report
 Base samples can remain labeled BS23

2/3

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: **Vertex**

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☒ Rush_72-hour rush

Project Name:

Prometheus

Project #:

23E-03329

Project Manager:
Sally Carttar

Sampler: **L. Pullman**

On Ice: ☐ Yes ☐ No

of Coolers: **1**

Cooler Temp (including CF): **0.6-0.120.5**

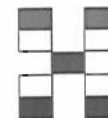
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
01/07/24	8:45	Soil	BS23-224 0'	1, 4oz jar		025
01/07/24	8:45	Soil	BS23-225 0'	1, 4oz jar		026
01/07/24	8:50	Soil	BS23-226 0'	1, 4oz jar		027
01/07/24	8:50	Soil	BS23-227 0'	1, 4oz jar		028
01/07/24	8:55	Soil	BS23-228 0'	1, 4oz jar		029
01/07/24	8:55	Soil	BS23-229 0'	1, 4oz jar		030
01/07/24	9:00	Soil	BS23-230 0'	1, 4oz jar		031
01/07/24	9:00	Soil	BS23-231 0'	1, 4oz jar		032
01/07/24	9:05	Soil	BS23-232 0'	1, 4oz jar		033
01/07/24	9:05	Soil	BS23-233 0'	1, 4oz jar		034
01/07/24	9:10	Soil	BS23-234 0'	1, 4oz jar		035

Date: **1-8-24** Time: **07:00** Relinquished by: **[Signature]**

Date: **1/8/24** Time: **1900** Relinquished by: **[Signature]**

Received by: **[Signature]** Via: **[Signature]** Date: **1/8/24** Time: **0700**

Received by: **[Signature]** Via: **[Signature]** Date: **1/9/24** Time: **7:30**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)										
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													

Remarks:
 Ace Fluid Solutions
 cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report
 Base samples can remain labeled BS23

3/3

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

December 01, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2311A03

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 10 sample(s) on 11/18/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311A03

Date Reported: 12/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-35 4'

Project: Prometheus

Collection Date: 11/16/2023 12:35:00 PM

Lab ID: 2311A03-001

Matrix: SOIL

Received Date: 11/18/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/22/2023 12:55:30 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/22/2023 12:55:30 AM
Surr: DNOP	93.2	69-147		%Rec	1	11/22/2023 12:55:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/22/2023 1:18:11 AM
Surr: BFB	90.0	15-244		%Rec	1	11/22/2023 1:18:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/22/2023 1:18:11 AM
Toluene	ND	0.048		mg/Kg	1	11/22/2023 1:18:11 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/22/2023 1:18:11 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/22/2023 1:18:11 AM
Surr: 4-Bromofluorobenzene	94.4	39.1-146		%Rec	1	11/22/2023 1:18:11 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	200	60		mg/Kg	20	11/22/2023 9:57:34 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1 of 14

Analytical Report

Lab Order 2311A03

Date Reported: 12/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-36 4'

Project: Prometheus

Collection Date: 11/16/2023 12:30:00 PM

Lab ID: 2311A03-002

Matrix: SOIL

Received Date: 11/18/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/22/2023 1:05:47 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/22/2023 1:05:47 AM
Surr: DNOP	95.8	69-147		%Rec	1	11/22/2023 1:05:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/22/2023 2:27:57 AM
Surr: BFB	87.8	15-244		%Rec	1	11/22/2023 2:27:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/22/2023 2:27:57 AM
Toluene	ND	0.049		mg/Kg	1	11/22/2023 2:27:57 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/22/2023 2:27:57 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/22/2023 2:27:57 AM
Surr: 4-Bromofluorobenzene	91.7	39.1-146		%Rec	1	11/22/2023 2:27:57 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	370	60		mg/Kg	20	11/22/2023 10:34:48 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311A03

Date Reported: 12/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-113 4'

Project: Prometheus

Collection Date: 11/16/2023 12:00:00 PM

Lab ID: 2311A03-003

Matrix: SOIL

Received Date: 11/18/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/22/2023 1:16:02 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/22/2023 1:16:02 AM
Surr: DNOP	94.2	69-147		%Rec	1	11/22/2023 1:16:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2023 3:37:31 AM
Surr: BFB	89.1	15-244		%Rec	1	11/22/2023 3:37:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/22/2023 3:37:31 AM
Toluene	ND	0.047		mg/Kg	1	11/22/2023 3:37:31 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2023 3:37:31 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/22/2023 3:37:31 AM
Surr: 4-Bromofluorobenzene	92.9	39.1-146		%Rec	1	11/22/2023 3:37:31 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1200	60		mg/Kg	20	11/22/2023 11:12:02 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311A03

Date Reported: 12/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-114 4'

Project: Prometheus

Collection Date: 11/16/2023 12:20:00 PM

Lab ID: 2311A03-004

Matrix: SOIL

Received Date: 11/18/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	11/22/2023 1:26:17 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/22/2023 1:26:17 AM
Surr: DNOP	96.6	69-147		%Rec	1	11/22/2023 1:26:17 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2023 4:00:42 AM
Surr: BFB	86.0	15-244		%Rec	1	11/22/2023 4:00:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/22/2023 4:00:42 AM
Toluene	ND	0.047		mg/Kg	1	11/22/2023 4:00:42 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2023 4:00:42 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/22/2023 4:00:42 AM
Surr: 4-Bromofluorobenzene	90.2	39.1-146		%Rec	1	11/22/2023 4:00:42 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	760	60		mg/Kg	20	11/22/2023 11:24:27 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311A03

Date Reported: 12/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-115 4'

Project: Prometheus

Collection Date: 11/16/2023 12:30:00 PM

Lab ID: 2311A03-005

Matrix: SOIL

Received Date: 11/18/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	11/22/2023 1:36:31 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	11/22/2023 1:36:31 AM
Surr: DNOP	96.8	69-147		%Rec	1	11/22/2023 1:36:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2023 4:23:55 AM
Surr: BFB	87.7	15-244		%Rec	1	11/22/2023 4:23:55 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/22/2023 4:23:55 AM
Toluene	ND	0.047		mg/Kg	1	11/22/2023 4:23:55 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2023 4:23:55 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/22/2023 4:23:55 AM
Surr: 4-Bromofluorobenzene	92.2	39.1-146		%Rec	1	11/22/2023 4:23:55 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1200	60		mg/Kg	20	11/22/2023 12:01:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311A03
Date Reported: 12/1/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-96 0'-4'
Project: Prometheus Collection Date: 11/16/2023 10:50:00 AM
Lab ID: 2311A03-006 Matrix: SOIL Received Date: 11/18/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/22/2023 1:46:45 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/22/2023 1:46:45 AM
Surr: DNOP	96.7	69-147		%Rec	1	11/22/2023 1:46:45 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/22/2023 4:47:06 AM
Surr: BFB	85.6	15-244		%Rec	1	11/22/2023 4:47:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/22/2023 4:47:06 AM
Toluene	ND	0.046		mg/Kg	1	11/22/2023 4:47:06 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/22/2023 4:47:06 AM
Xylenes, Total	ND	0.092		mg/Kg	1	11/22/2023 4:47:06 AM
Surr: 4-Bromofluorobenzene	90.8	39.1-146		%Rec	1	11/22/2023 4:47:06 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	93	60		mg/Kg	20	11/22/2023 12:14:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311A03

Date Reported: 12/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-97 0'-4'

Project: Prometheus

Collection Date: 11/16/2023 12:15:00 PM

Lab ID: 2311A03-007

Matrix: SOIL

Received Date: 11/18/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	11/22/2023 1:57:00 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/22/2023 1:57:00 AM
Surr: DNOP	96.7	69-147		%Rec	1	11/22/2023 1:57:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2023 5:10:15 AM
Surr: BFB	86.1	15-244		%Rec	1	11/22/2023 5:10:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/22/2023 5:10:15 AM
Toluene	ND	0.047		mg/Kg	1	11/22/2023 5:10:15 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2023 5:10:15 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/22/2023 5:10:15 AM
Surr: 4-Bromofluorobenzene	90.8	39.1-146		%Rec	1	11/22/2023 5:10:15 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	92	60		mg/Kg	20	11/22/2023 12:26:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311A03

Date Reported: 12/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-98 0'-4'

Project: Prometheus

Collection Date: 11/16/2023 10:55:00 AM

Lab ID: 2311A03-008

Matrix: SOIL

Received Date: 11/18/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/22/2023 2:07:16 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/22/2023 2:07:16 AM
Surr: DNOP	97.2	69-147		%Rec	1	11/22/2023 2:07:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2023 5:33:23 AM
Surr: BFB	85.1	15-244		%Rec	1	11/22/2023 5:33:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/22/2023 5:33:23 AM
Toluene	ND	0.047		mg/Kg	1	11/22/2023 5:33:23 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2023 5:33:23 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/22/2023 5:33:23 AM
Surr: 4-Bromofluorobenzene	89.9	39.1-146		%Rec	1	11/22/2023 5:33:23 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	11/22/2023 12:38:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311A03

Date Reported: 12/1/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-99 0'-4'
Project: Prometheus Collection Date: 11/16/2023 11:00:00 AM
Lab ID: 2311A03-009 Matrix: SOIL Received Date: 11/18/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	11/22/2023 2:17:32 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	11/22/2023 2:17:32 AM
Surr: DNOP	96.8	69-147		%Rec	1	11/22/2023 2:17:32 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2023 5:56:31 AM
Surr: BFB	86.1	15-244		%Rec	1	11/22/2023 5:56:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/22/2023 5:56:31 AM
Toluene	ND	0.047		mg/Kg	1	11/22/2023 5:56:31 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2023 5:56:31 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/22/2023 5:56:31 AM
Surr: 4-Bromofluorobenzene	89.6	39.1-146		%Rec	1	11/22/2023 5:56:31 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	140	60		mg/Kg	20	11/22/2023 12:51:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311A03

Date Reported: 12/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-100 0'-4'

Project: Prometheus

Collection Date: 11/16/2023 11:00:00 AM

Lab ID: 2311A03-010

Matrix: SOIL

Received Date: 11/18/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	11/22/2023 2:27:49 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/22/2023 2:27:49 AM
Surr: DNOP	96.2	69-147		%Rec	1	11/22/2023 2:27:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2023 6:19:40 AM
Surr: BFB	87.8	15-244		%Rec	1	11/22/2023 6:19:40 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/22/2023 6:19:40 AM
Toluene	ND	0.047		mg/Kg	1	11/22/2023 6:19:40 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2023 6:19:40 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/22/2023 6:19:40 AM
Surr: 4-Bromofluorobenzene	92.0	39.1-146		%Rec	1	11/22/2023 6:19:40 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	310	60		mg/Kg	20	11/22/2023 1:03:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311A03
01-Dec-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: MB-78948		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 78948			RunNo: 101389						
Prep Date: 11/22/2023	Analysis Date: 11/22/2023			SeqNo: 3730164			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78948		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 78948			RunNo: 101389						
Prep Date: 11/22/2023	Analysis Date: 11/22/2023			SeqNo: 3730165			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311A03

01-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-78935	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 78935		RunNo: 101331							
Prep Date: 11/21/2023	Analysis Date: 11/22/2023		SeqNo: 3728990		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.8	61.9	130			
Surr: DNOP	4.6		5.000		91.0	69	147			

Sample ID: MB-78935	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 78935		RunNo: 101331							
Prep Date: 11/21/2023	Analysis Date: 11/22/2023		SeqNo: 3728992		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.3	69	147			

Sample ID: LCS-78933	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 78933		RunNo: 101387							
Prep Date: 11/22/2023	Analysis Date: 11/23/2023		SeqNo: 3729954		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.7	69	147			

Sample ID: MB-78933	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 78933		RunNo: 101387							
Prep Date: 11/22/2023	Analysis Date: 11/23/2023		SeqNo: 3729957		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		87.0	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311A03

01-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78899	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78899		RunNo: 101345							
Prep Date: 11/20/2023	Analysis Date: 11/21/2023		SeqNo: 3728450		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.6	70	130			
Surr: BFB	1900		1000		189	15	244			

Sample ID: mb-78899	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78899		RunNo: 101345							
Prep Date: 11/20/2023	Analysis Date: 11/21/2023		SeqNo: 3728451		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		89.9	15	244			

Sample ID: 2311a03-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BS23-35 4'	Batch ID: 78899		RunNo: 101345							
Prep Date: 11/20/2023	Analysis Date: 11/22/2023		SeqNo: 3728453		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.13	0	94.4	70	130			
Surr: BFB	1900		965.3		197	15	244			

Sample ID: 2311a03-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BS23-35 4'	Batch ID: 78899		RunNo: 101345							
Prep Date: 11/20/2023	Analysis Date: 11/22/2023		SeqNo: 3728454		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.9	24.34	0	82.8	70	130	12.3	20	
Surr: BFB	1800		973.7		184	15	244	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311A03

01-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-78899	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78899		RunNo: 101345							
Prep Date: 11/20/2023	Analysis Date: 11/21/2023		SeqNo: 3728536		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.6	70	130			
Toluene	0.99	0.050	1.000	0	98.7	70	130			
Ethylbenzene	0.98	0.050	1.000	0	97.7	70	130			
Xylenes, Total	2.9	0.10	3.000	0	98.2	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	39.1	146			

Sample ID: mb-78899	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78899		RunNo: 101345							
Prep Date: 11/20/2023	Analysis Date: 11/21/2023		SeqNo: 3728537		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	39.1	146			

Sample ID: 2311a03-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BS23-36 4'	Batch ID: 78899		RunNo: 101345							
Prep Date: 11/20/2023	Analysis Date: 11/22/2023		SeqNo: 3728540		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9901	0	98.5	70	130			
Toluene	0.97	0.050	0.9901	0	98.1	70	130			
Ethylbenzene	0.95	0.050	0.9901	0	96.2	70	130			
Xylenes, Total	2.9	0.099	2.970	0	96.0	70	130			
Surr: 4-Bromofluorobenzene	0.94		0.9901		94.6	39.1	146			

Sample ID: 2311a03-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BS23-36 4'	Batch ID: 78899		RunNo: 101345							
Prep Date: 11/20/2023	Analysis Date: 11/22/2023		SeqNo: 3728541		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	0.9940	0	97.2	70	130	0.993	20	
Toluene	0.96	0.050	0.9940	0	96.5	70	130	1.29	20	
Ethylbenzene	0.94	0.050	0.9940	0	94.8	70	130	0.985	20	
Xylenes, Total	2.8	0.099	2.982	0	94.9	70	130	0.693	20	
Surr: 4-Bromofluorobenzene	0.92		0.9940		92.8	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2311A03

RcptNo: 1

Received By: Tracy Casarrubias 11/18/2023 7:30:00 AM

Completed By: Tracy Casarrubias 11/18/2023 8:48:48 AM

Reviewed By: SLM 11/20/23

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☐
- (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met? Yes ☒ No ☐
- (If no, notify customer for authorization.)
- # of preserved bottles checked for pH: Adjusted? (≤2 or >12 unless noted)
- Checked by: TMC 11/18/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Mailing address, phone number, and Email/Fax are missing on COC- TMC 11/18/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes	Yogi		



Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 13, 2023

Kent Stallings
Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL: (505) 506-0040
FAX:

RE: Prometheus

OrderNo.: 2311164

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 22 sample(s) on 11/3/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-34 0-3'

Project: Prometheus

Collection Date: 11/1/2023 12:25:00 PM

Lab ID: 2311164-001

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/6/2023 2:35:35 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/6/2023 2:35:35 PM
Surr: DNOP	90.7	69-147		%Rec	1	11/6/2023 2:35:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2023 10:48:26 PM
Surr: BFB	91.2	15-244		%Rec	1	11/7/2023 10:48:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/7/2023 10:48:26 PM
Toluene	ND	0.049		mg/Kg	1	11/7/2023 10:48:26 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2023 10:48:26 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/7/2023 10:48:26 PM
Surr: 4-Bromofluorobenzene	92.3	39.1-146		%Rec	1	11/7/2023 10:48:26 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 12:08:42 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311164
Date Reported: 11/13/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-36 0-4'
Project: Prometheus Collection Date: 11/1/2023 12:15:00 PM
Lab ID: 2311164-002 Matrix: SOIL Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/6/2023 2:46:26 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/6/2023 2:46:26 PM
Surr: DNOP	95.6	69-147		%Rec	1	11/6/2023 2:46:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2023 11:11:59 PM
Surr: BFB	92.7	15-244		%Rec	1	11/7/2023 11:11:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/7/2023 11:11:59 PM
Toluene	ND	0.048		mg/Kg	1	11/7/2023 11:11:59 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2023 11:11:59 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/7/2023 11:11:59 PM
Surr: 4-Bromofluorobenzene	94.7	39.1-146		%Rec	1	11/7/2023 11:11:59 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 12:21:06 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-44 0-4'

Project: Prometheus

Collection Date: 11/1/2023 12:10:00 PM

Lab ID: 2311164-003

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/6/2023 2:57:19 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/6/2023 2:57:19 PM
Surr: DNOP	93.1	69-147		%Rec	1	11/6/2023 2:57:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2023 11:35:24 PM
Surr: BFB	92.6	15-244		%Rec	1	11/7/2023 11:35:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/7/2023 11:35:24 PM
Toluene	ND	0.048		mg/Kg	1	11/7/2023 11:35:24 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2023 11:35:24 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/7/2023 11:35:24 PM
Surr: 4-Bromofluorobenzene	94.4	39.1-146		%Rec	1	11/7/2023 11:35:24 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	99	60		mg/Kg	20	11/8/2023 12:33:31 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-68 0-4'

Project: Prometheus

Collection Date: 11/1/2023 12:20:00 PM

Lab ID: 2311164-004

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/6/2023 3:08:08 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/6/2023 3:08:08 PM
Surr: DNOP	94.8	69-147		%Rec	1	11/6/2023 3:08:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2023 11:58:42 PM
Surr: BFB	94.5	15-244		%Rec	1	11/7/2023 11:58:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/7/2023 11:58:42 PM
Toluene	ND	0.049		mg/Kg	1	11/7/2023 11:58:42 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2023 11:58:42 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2023 11:58:42 PM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	11/7/2023 11:58:42 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 1:10:44 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-69 0-4'

Project: Prometheus

Collection Date: 11/1/2023 12:20:00 PM

Lab ID: 2311164-005

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/6/2023 3:18:58 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/6/2023 3:18:58 PM
Surr: DNOP	93.8	69-147		%Rec	1	11/6/2023 3:18:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/8/2023 12:22:23 AM
Surr: BFB	94.2	15-244		%Rec	1	11/8/2023 12:22:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/8/2023 12:22:23 AM
Toluene	ND	0.050		mg/Kg	1	11/8/2023 12:22:23 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/8/2023 12:22:23 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/8/2023 12:22:23 AM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	11/8/2023 12:22:23 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 1:47:58 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-70 0-4'

Project: Prometheus

Collection Date: 11/1/2023 12:25:00 PM

Lab ID: 2311164-006

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/6/2023 3:29:45 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/6/2023 3:29:45 PM
Surr: DNOP	93.4	69-147		%Rec	1	11/6/2023 3:29:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/8/2023 12:46:05 AM
Surr: BFB	94.8	15-244		%Rec	1	11/8/2023 12:46:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/8/2023 12:46:05 AM
Toluene	ND	0.046		mg/Kg	1	11/8/2023 12:46:05 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/8/2023 12:46:05 AM
Xylenes, Total	ND	0.092		mg/Kg	1	11/8/2023 12:46:05 AM
Surr: 4-Bromofluorobenzene	96.8	39.1-146		%Rec	1	11/8/2023 12:46:05 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 2:00:22 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311164
Date Reported: 11/13/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-68 4'
Project: Prometheus Collection Date: 11/1/2023 1:30:00 PM
Lab ID: 2311164-007 Matrix: SOIL Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/6/2023 3:40:32 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/6/2023 3:40:32 PM
Surr: DNOP	90.2	69-147		%Rec	1	11/6/2023 3:40:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/8/2023 1:09:38 AM
Surr: BFB	94.7	15-244		%Rec	1	11/8/2023 1:09:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/8/2023 1:09:38 AM
Toluene	ND	0.049		mg/Kg	1	11/8/2023 1:09:38 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2023 1:09:38 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/8/2023 1:09:38 AM
Surr: 4-Bromofluorobenzene	95.5	39.1-146		%Rec	1	11/8/2023 1:09:38 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	830	60		mg/Kg	20	11/7/2023 6:21:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-69 4'

Project: Prometheus

Collection Date: 11/1/2023 1:30:00 PM

Lab ID: 2311164-008

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/6/2023 3:51:18 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/6/2023 3:51:18 PM
Surr: DNOP	82.2	69-147		%Rec	1	11/6/2023 3:51:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/8/2023 1:33:10 AM
Surr: BFB	91.9	15-244		%Rec	1	11/8/2023 1:33:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/8/2023 1:33:10 AM
Toluene	ND	0.048		mg/Kg	1	11/8/2023 1:33:10 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/8/2023 1:33:10 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/8/2023 1:33:10 AM
Surr: 4-Bromofluorobenzene	93.0	39.1-146		%Rec	1	11/8/2023 1:33:10 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1100	60		mg/Kg	20	11/7/2023 6:33:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-70 4'

Project: Prometheus

Collection Date: 11/1/2023 1:40:00 PM

Lab ID: 2311164-009

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/6/2023 4:02:02 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/6/2023 4:02:02 PM
Surr: DNOP	104	69-147		%Rec	1	11/6/2023 4:02:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/8/2023 1:56:36 AM
Surr: BFB	96.4	15-244		%Rec	1	11/8/2023 1:56:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/8/2023 1:56:36 AM
Toluene	ND	0.048		mg/Kg	1	11/8/2023 1:56:36 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/8/2023 1:56:36 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/8/2023 1:56:36 AM
Surr: 4-Bromofluorobenzene	97.3	39.1-146		%Rec	1	11/8/2023 1:56:36 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	490	60		mg/Kg	20	11/7/2023 7:10:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-71 4'

Project: Prometheus

Collection Date: 11/1/2023 1:45:00 PM

Lab ID: 2311164-010

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/6/2023 4:12:46 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/6/2023 4:12:46 PM
Surr: DNOP	90.5	69-147		%Rec	1	11/6/2023 4:12:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/8/2023 2:19:57 AM
Surr: BFB	93.7	15-244		%Rec	1	11/8/2023 2:19:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/8/2023 2:19:57 AM
Toluene	ND	0.050		mg/Kg	1	11/8/2023 2:19:57 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/8/2023 2:19:57 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/8/2023 2:19:57 AM
Surr: 4-Bromofluorobenzene	96.0	39.1-146		%Rec	1	11/8/2023 2:19:57 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	770	60		mg/Kg	20	11/7/2023 7:23:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-72 4'

Project: Prometheus

Collection Date: 11/1/2023 2:45:00 PM

Lab ID: 2311164-011

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/6/2023 4:23:30 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/6/2023 4:23:30 PM
Surr: DNOP	83.6	69-147		%Rec	1	11/6/2023 4:23:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/8/2023 3:07:09 AM
Surr: BFB	93.5	15-244		%Rec	1	11/8/2023 3:07:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/8/2023 3:07:09 AM
Toluene	ND	0.049		mg/Kg	1	11/8/2023 3:07:09 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2023 3:07:09 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/8/2023 3:07:09 AM
Surr: 4-Bromofluorobenzene	94.8	39.1-146		%Rec	1	11/8/2023 3:07:09 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2200	60		mg/Kg	20	11/7/2023 7:35:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-73 4'

Project: Prometheus

Collection Date: 11/1/2023 2:40:00 PM

Lab ID: 2311164-012

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/6/2023 4:34:12 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/6/2023 4:34:12 PM
Surr: DNOP	85.0	69-147		%Rec	1	11/6/2023 4:34:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/8/2023 3:30:32 AM
Surr: BFB	94.3	15-244		%Rec	1	11/8/2023 3:30:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/8/2023 3:30:32 AM
Toluene	ND	0.049		mg/Kg	1	11/8/2023 3:30:32 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2023 3:30:32 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/8/2023 3:30:32 AM
Surr: 4-Bromofluorobenzene	95.4	39.1-146		%Rec	1	11/8/2023 3:30:32 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	910	60		mg/Kg	20	11/7/2023 7:48:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-74 4'

Project: Prometheus

Collection Date: 11/1/2023 2:00:00 PM

Lab ID: 2311164-013

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/6/2023 4:44:56 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/6/2023 4:44:56 PM
Surr: DNOP	88.0	69-147		%Rec	1	11/6/2023 4:44:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/8/2023 3:54:03 AM
Surr: BFB	93.9	15-244		%Rec	1	11/8/2023 3:54:03 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/8/2023 3:54:03 AM
Toluene	ND	0.048		mg/Kg	1	11/8/2023 3:54:03 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/8/2023 3:54:03 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/8/2023 3:54:03 AM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	11/8/2023 3:54:03 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2200	150		mg/Kg	50	11/8/2023 1:02:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311164
Date Reported: 11/13/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-75 4'
Project: Prometheus Collection Date: 11/1/2023 2:00:00 PM
Lab ID: 2311164-014 Matrix: SOIL Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/6/2023 4:55:36 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/6/2023 4:55:36 PM
Surr: DNOP	90.1	69-147		%Rec	1	11/6/2023 4:55:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/8/2023 4:17:38 AM
Surr: BFB	95.3	15-244		%Rec	1	11/8/2023 4:17:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/8/2023 4:17:38 AM
Toluene	ND	0.046		mg/Kg	1	11/8/2023 4:17:38 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/8/2023 4:17:38 AM
Xylenes, Total	ND	0.092		mg/Kg	1	11/8/2023 4:17:38 AM
Surr: 4-Bromofluorobenzene	97.0	39.1-146		%Rec	1	11/8/2023 4:17:38 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	4100	150		mg/Kg	50	11/8/2023 1:14:35 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311164
Date Reported: 11/13/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-76 4'
Project: Prometheus Collection Date: 11/1/2023 2:40:00 PM
Lab ID: 2311164-015 Matrix: SOIL Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/6/2023 5:22:18 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/6/2023 5:22:18 PM
Surr: DNOP	87.5	69-147		%Rec	1	11/6/2023 5:22:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/8/2023 4:41:10 AM
Surr: BFB	95.5	15-244		%Rec	1	11/8/2023 4:41:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/8/2023 4:41:10 AM
Toluene	ND	0.048		mg/Kg	1	11/8/2023 4:41:10 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/8/2023 4:41:10 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/8/2023 4:41:10 AM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	11/8/2023 4:41:10 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	2400	60		mg/Kg	20	11/7/2023 2:16:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-77 4'

Project: Prometheus

Collection Date: 11/1/2023 3:05:00 PM

Lab ID: 2311164-016

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/6/2023 5:43:35 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/6/2023 5:43:35 PM
Surr: DNOP	102	69-147		%Rec	1	11/6/2023 5:43:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/8/2023 5:04:42 AM
Surr: BFB	92.7	15-244		%Rec	1	11/8/2023 5:04:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/8/2023 5:04:42 AM
Toluene	ND	0.047		mg/Kg	1	11/8/2023 5:04:42 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/8/2023 5:04:42 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/8/2023 5:04:42 AM
Surr: 4-Bromofluorobenzene	94.9	39.1-146		%Rec	1	11/8/2023 5:04:42 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	1500	60		mg/Kg	20	11/7/2023 2:53:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-78 4'

Project: Prometheus

Collection Date: 11/1/2023 2:45:00 PM

Lab ID: 2311164-017

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/6/2023 5:54:21 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/6/2023 5:54:21 PM
Surr: DNOP	96.2	69-147		%Rec	1	11/6/2023 5:54:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/8/2023 5:28:20 AM
Surr: BFB	94.9	15-244		%Rec	1	11/8/2023 5:28:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/8/2023 5:28:20 AM
Toluene	ND	0.047		mg/Kg	1	11/8/2023 5:28:20 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/8/2023 5:28:20 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/8/2023 5:28:20 AM
Surr: 4-Bromofluorobenzene	96.8	39.1-146		%Rec	1	11/8/2023 5:28:20 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2700	150		mg/Kg	50	11/8/2023 1:26:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-79 4'

Project: Prometheus

Collection Date: 11/1/2023 1:40:00 PM

Lab ID: 2311164-018

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/6/2023 6:05:09 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/6/2023 6:05:09 PM
Surr: DNOP	91.4	69-147		%Rec	1	11/6/2023 6:05:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/8/2023 5:51:54 AM
Surr: BFB	95.0	15-244		%Rec	1	11/8/2023 5:51:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/8/2023 5:51:54 AM
Toluene	ND	0.049		mg/Kg	1	11/8/2023 5:51:54 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2023 5:51:54 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/8/2023 5:51:54 AM
Surr: 4-Bromofluorobenzene	96.9	39.1-146		%Rec	1	11/8/2023 5:51:54 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	2300	60		mg/Kg	20	11/7/2023 4:07:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-80 4'

Project: Prometheus

Collection Date: 11/1/2023 1:35:00 PM

Lab ID: 2311164-019

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/6/2023 6:15:57 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/6/2023 6:15:57 PM
Surr: DNOP	98.6	69-147		%Rec	1	11/6/2023 6:15:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/8/2023 6:15:19 AM
Surr: BFB	94.5	15-244		%Rec	1	11/8/2023 6:15:19 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/8/2023 6:15:19 AM
Toluene	ND	0.049		mg/Kg	1	11/8/2023 6:15:19 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2023 6:15:19 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/8/2023 6:15:19 AM
Surr: 4-Bromofluorobenzene	96.5	39.1-146		%Rec	1	11/8/2023 6:15:19 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	310	60		mg/Kg	20	11/7/2023 4:20:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311164
Date Reported: 11/13/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-81 4'
Project: Prometheus Collection Date: 11/1/2023 1:30:00 PM
Lab ID: 2311164-020 Matrix: SOIL Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/6/2023 6:26:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/6/2023 6:26:45 PM
Surr: DNOP	86.1	69-147		%Rec	1	11/6/2023 6:26:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/8/2023 6:38:47 AM
Surr: BFB	93.2	15-244		%Rec	1	11/8/2023 6:38:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/8/2023 6:38:47 AM
Toluene	ND	0.049		mg/Kg	1	11/8/2023 6:38:47 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2023 6:38:47 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/8/2023 6:38:47 AM
Surr: 4-Bromofluorobenzene	95.1	39.1-146		%Rec	1	11/8/2023 6:38:47 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	670	60		mg/Kg	20	11/7/2023 4:32:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-82 4'

Project: Prometheus

Collection Date: 11/1/2023 12:35:00 PM

Lab ID: 2311164-021

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/7/2023 7:12:52 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/7/2023 7:12:52 PM
Surr: DNOP	84.0	69-147		%Rec	1	11/7/2023 7:12:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/8/2023 3:22:07 PM
Surr: BFB	94.7	15-244		%Rec	1	11/8/2023 3:22:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/8/2023 3:22:07 PM
Toluene	ND	0.050		mg/Kg	1	11/8/2023 3:22:07 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/8/2023 3:22:07 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/8/2023 3:22:07 PM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	11/8/2023 3:22:07 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	2200	60		mg/Kg	20	11/7/2023 4:44:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311164

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-104 4'

Project: Prometheus

Collection Date: 11/1/2023 12:30:00 PM

Lab ID: 2311164-022

Matrix: SOIL

Received Date: 11/3/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	11/7/2023 7:37:10 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	11/7/2023 7:37:10 PM
Surr: DNOP	77.0	69-147		%Rec	1	11/7/2023 7:37:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/8/2023 3:45:26 PM
Surr: BFB	92.4	15-244		%Rec	1	11/8/2023 3:45:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/8/2023 3:45:26 PM
Toluene	ND	0.049		mg/Kg	1	11/8/2023 3:45:26 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2023 3:45:26 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/8/2023 3:45:26 PM
Surr: 4-Bromofluorobenzene	95.7	39.1-146		%Rec	1	11/8/2023 3:45:26 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	1400	60		mg/Kg	20	11/7/2023 4:57:22 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311164

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78599	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78599	RunNo: 101020								
Prep Date: 11/6/2023	Analysis Date: 11/7/2023	SeqNo: 3708550 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78599	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 78599	RunNo: 101020								
Prep Date: 11/6/2023	Analysis Date: 11/7/2023	SeqNo: 3708551 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.0	90	110			

Sample ID: MB-78597	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78597	RunNo: 101020								
Prep Date: 11/6/2023	Analysis Date: 11/7/2023	SeqNo: 3708554 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78597	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 78597	RunNo: 101020								
Prep Date: 11/6/2023	Analysis Date: 11/7/2023	SeqNo: 3708555 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

Sample ID: MB-78613	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78613	RunNo: 101002								
Prep Date: 11/7/2023	Analysis Date: 11/7/2023	SeqNo: 3708614 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78613	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 78613	RunNo: 101002								
Prep Date: 11/7/2023	Analysis Date: 11/7/2023	SeqNo: 3708615 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2311164
13-Nov-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: 2311164-020AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-81 4'	Batch ID: 78563	RunNo: 100996								
Prep Date: 11/3/2023	Analysis Date: 11/6/2023	SeqNo: 3707246			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.7	48.73	0	99.4	54.2	135			
Surr: DNOP	5.8		4.873		118	69	147			

Sample ID: 2311164-020AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-81 4'	Batch ID: 78563	RunNo: 100996								
Prep Date: 11/3/2023	Analysis Date: 11/6/2023	SeqNo: 3707247			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.6	48.08	0	103	54.2	135	2.46	29.2	
Surr: DNOP	5.3		4.808		111	69	147	0	0	

Sample ID: LCS-78563	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78563	RunNo: 100996								
Prep Date: 11/3/2023	Analysis Date: 11/6/2023	SeqNo: 3707249			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	113	61.9	130			
Surr: DNOP	6.5		5.000		131	69	147			

Sample ID: LCS-78588	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78588	RunNo: 100996								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707250			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.9	61.9	130			
Surr: DNOP	4.4		5.000		88.2	69	147			

Sample ID: MB-78563	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78563	RunNo: 100996								
Prep Date: 11/3/2023	Analysis Date: 11/6/2023	SeqNo: 3707252			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.9	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311164

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78588	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78588	RunNo: 100996								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707253			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	69	147			

Sample ID: 2311164-022AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-104 4'	Batch ID: 78588	RunNo: 100997								
Prep Date: 11/6/2023	Analysis Date: 11/7/2023	SeqNo: 3708981			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.7	48.45	0	109	54.2	135			
Surr: DNOP	3.6		4.845		73.7	69	147			

Sample ID: 2311164-022AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-104 4'	Batch ID: 78588	RunNo: 100997								
Prep Date: 11/6/2023	Analysis Date: 11/7/2023	SeqNo: 3708982			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.3	46.43	0	110	54.2	135	2.99	29.2	
Surr: DNOP	3.5		4.643		74.4	69	147	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2311164

13-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Prometheus

Sample ID: ics-78553	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78553			RunNo: 100993						
Prep Date: 11/3/2023	Analysis Date: 11/7/2023			SeqNo: 3708260		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.8	70	130			
Surr: BFB	1900		1000		194	15	244			

Sample ID: mb-78553	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78553			RunNo: 100993						
Prep Date: 11/3/2023	Analysis Date: 11/7/2023			SeqNo: 3708261		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.4	15	244			

Sample ID: 2311164-001AMS	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: WS23-34 0-3'	Batch ID: 78553			RunNo: 100993						
Prep Date: 11/3/2023	Analysis Date: 11/8/2023			SeqNo: 3708263		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.75	0	84.7	70	130			
Surr: BFB	1900		990.1		197	15	244			

Sample ID: 2311164-001AMSD	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: WS23-34 0-3'	Batch ID: 78553			RunNo: 100993						
Prep Date: 11/3/2023	Analysis Date: 11/8/2023			SeqNo: 3708264		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.9	24.49	0	82.5	70	130	3.62	20	
Surr: BFB	1900		979.4		196	15	244	0	0	

Sample ID: ics-78557	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78557			RunNo: 101030						
Prep Date: 11/3/2023	Analysis Date: 11/8/2023			SeqNo: 3709400		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	70	130			
Surr: BFB	2100		1000		210	15	244			

Sample ID: mb-78557	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78557			RunNo: 101030						
Prep Date: 11/3/2023	Analysis Date: 11/8/2023			SeqNo: 3709401		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311164

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: mb-78557	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 78557	RunNo: 101030								
Prep Date: 11/3/2023	Analysis Date: 11/8/2023	SeqNo: 3709401	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.6	15	244			

Sample ID: 2311164-021ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BS23-82 4'	Batch ID: 78557	RunNo: 101030								
Prep Date: 11/3/2023	Analysis Date: 11/8/2023	SeqNo: 3709970	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.70	0	83.2	70	130			
Surr: BFB	1900		988.1		192	15	244			

Sample ID: 2311164-021amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BS23-82 4'	Batch ID: 78557	RunNo: 101030								
Prep Date: 11/3/2023	Analysis Date: 11/8/2023	SeqNo: 3709971	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.93	0	83.9	70	130	1.76	20	
Surr: BFB	2000		997.0		196	15	244	0	0	

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311164

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-78553	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78553		RunNo: 100993							
Prep Date: 11/3/2023	Analysis Date: 11/7/2023		SeqNo: 3708357		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.2	70	130			
Toluene	0.93	0.050	1.000	0	92.8	70	130			
Ethylbenzene	0.93	0.050	1.000	0	93.2	70	130			
Xylenes, Total	2.8	0.10	3.000	0	94.2	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.4	39.1	146			

Sample ID: mb-78553	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78553		RunNo: 100993							
Prep Date: 11/3/2023	Analysis Date: 11/7/2023		SeqNo: 3708358		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.5	39.1	146			

Sample ID: 2311164-002AMS	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-36 0-4'	Batch ID: 78553		RunNo: 100993							
Prep Date: 11/3/2023	Analysis Date: 11/8/2023		SeqNo: 3708361		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9615	0	91.2	70	130			
Toluene	0.88	0.048	0.9615	0	91.8	70	130			
Ethylbenzene	0.89	0.048	0.9615	0	92.6	70	130			
Xylenes, Total	2.7	0.096	2.885	0	92.6	70	130			
Surr: 4-Bromofluorobenzene	0.93		0.9615		97.2	39.1	146			

Sample ID: 2311164-002AMSD	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-36 0-4'	Batch ID: 78553		RunNo: 100993							
Prep Date: 11/3/2023	Analysis Date: 11/8/2023		SeqNo: 3708362		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9551	0	90.9	70	130	0.934	20	
Toluene	0.88	0.048	0.9551	0	91.8	70	130	0.780	20	
Ethylbenzene	0.89	0.048	0.9551	0	92.8	70	130	0.531	20	
Xylenes, Total	2.7	0.096	2.865	0	94.2	70	130	1.03	20	
Surr: 4-Bromofluorobenzene	0.93		0.9551		97.6	39.1	146	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2311164
13-Nov-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: LCS-78557	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 78557	RunNo: 101030								
Prep Date: 11/3/2023	Analysis Date: 11/8/2023	SeqNo: 3709404			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.3	70	130			
Toluene	0.98	0.050	1.000	0	97.8	70	130			
Ethylbenzene	0.97	0.050	1.000	0	97.4	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.4	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	39.1	146			

Sample ID: mb-78557	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 78557	RunNo: 101030								
Prep Date: 11/3/2023	Analysis Date: 11/8/2023	SeqNo: 3709405			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	39.1	146			

Sample ID: 2311164-022ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-104 4'	Batch ID: 78557	RunNo: 101030								
Prep Date: 11/3/2023	Analysis Date: 11/8/2023	SeqNo: 3710066			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9814	0	89.4	70	130			
Toluene	0.88	0.049	0.9814	0	90.0	70	130			
Ethylbenzene	0.89	0.049	0.9814	0	90.8	70	130			
Xylenes, Total	2.7	0.098	2.944	0	91.4	70	130			
Surr: 4-Bromofluorobenzene	0.97		0.9814		98.4	39.1	146			

Sample ID: 2311164-022amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-104 4'	Batch ID: 78557	RunNo: 101030								
Prep Date: 11/3/2023	Analysis Date: 11/8/2023	SeqNo: 3710067			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9823	0	90.0	70	130	0.778	20	
Toluene	0.89	0.049	0.9823	0	91.1	70	130	1.29	20	
Ethylbenzene	0.90	0.049	0.9823	0	91.9	70	130	1.27	20	
Xylenes, Total	2.7	0.098	2.947	0	91.9	70	130	0.742	20	
Surr: 4-Bromofluorobenzene	0.94		0.9823		95.8	39.1	146	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Sample Log-In Check List

Client Name: Vertex Resources Work Order Number: 2311164 RcptNo: 1

Received By: Tracy Casarrubias 11/3/2023 7:55:00 AM

Completed By: Tracy Casarrubias 11/3/2023 8:59:25 AM

Reviewed By: *mu 11/3/23*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☒ (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met? Yes ☒ No ☐ (If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(≤2 or >12 unless noted)

Adjusted:

Checked by: *sem 11/3/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☒ No ☐ NA ☒ *time 11/3/23*

Person Notified: Erin C.

Date: 11/3/23

By Whom: Tracy Casarrubias

Via: ☐ eMail ☒ Phone ☐ Fax ☐ In Person

Regarding: Time discrepancy.

Client Instructions: Mailing address, phone number and Email/Fax are missing on COC - TMC 11/3/23

16. Additional remarks:

COC time of "13:30" is accurate. moving forward with that time - time 11/3/23

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes	Yogi		

Client: **Vertex**

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

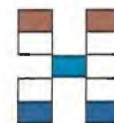
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:	
<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush <u>72-hour</u> rush
Project Name:	
Prometheus	
Project #:	
23E-03329	
Project Manager:	
Kent Stallings	
MMoffitt@vertex.ca	
Sampler:	L. Pullman
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 40gi
# of Coolers:	1
Cooler Temp (including CF):	1.3-0 = 1.3°



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Date: 11-02-23	Time: 07:00	Relinquished by: 
Date: 11/2/23	Time: 1900	Relinquished by: 

Received by:	Via:	Date	Time
<i>[Signature]</i>	-	11/2/23	7:00
Received by:	Via: <i>CORNER</i>	Date	Time
<i>[Signature]</i>		11/3/23	7:55

Remarks:
Ace Fluid Solutions
cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report

1/2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Turn-Around Time:

<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush_72-hour rush
Project Name:	
Prometheus	
Project #:	
23E-03329	
Project Manager:	
Kent Stallings	
MMoffitt@vertex.ca	
Sampler:	L. Pullman
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 40g
# of Coolers:	1
Cooler Temp (including CF):	1.3-0 = 1.3°



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Cooler Temp (including CF): 1.3 - 0 = 1.3°			BTEX / MT	TPH:8015D	8081 Pestic	EDB (Metho	PAHs by 83	RCRA 8 Me	Cl, F, Br, N	8260 (VOA)	8270 (Semi	Total Colifo					
				Container Type and #	Preservative Type	HEAL No.															
11/01/23	14:00	Soil	BS23-74 4'	1, 4oz jar		013	X	X					X								
11/01/23	14:00	Soil	BS23-75 4'	1, 4oz jar		014	X	X					X								
11/01/23	14:40	Soil	BS23-76 4'	1, 4oz jar		015	X	X					X								
11/01/23	15:05	Soil	BS23-77 4'	1, 4oz jar		016	X	X					X								
11/01/23	14:45	Soil	BS23-78 4'	1, 4oz jar		017	X	X					X								
11/01/23	13:40	Soil	BS23-79 4'	1, 4oz jar		018	X	X					X								
11/01/23	13:35	Soil	BS23-80 4'	1, 4oz jar		019	X	X					X								
11/01/23	13:30	Soil	BS23-81 4'	1, 4oz jar		020	X	X					X								
11/01/23	12:35	Soil	BS23-82 4'	1, 4oz jar		021	X	X					X								
11/01/23	12:30	Soil	BS23-104 4'	1, 4oz jar		022	X	X					X								

Date: 11-2-23 Time: 07:00 Relinquished by: [Signature]

Date: 11/2/23 Time: 19:00 Relinquished by: [Signature]

Received by: [Signature] Via: [Signature] Date: 11/2/23 Time: 07:00

Received by: [Signature] Via: COURT Date: 11/3/23 Time: 7:55

Remarks:
Ace Fluid Solutions
cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report

2/2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

November 16, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2311217

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 13 sample(s) on 11/4/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311217

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-29 0-4'

Project: Prometheus

Collection Date: 11/2/2023 12:00:00 PM

Lab ID: 2311217-001

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/9/2023 2:19:55 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/9/2023 2:19:55 PM
Surr: DNOP	110	69-147		%Rec	1	11/9/2023 2:19:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 4:43:00 AM
Surr: BFB	129	15-244		%Rec	1	11/11/2023 4:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	11/11/2023 4:43:00 AM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 4:43:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 4:43:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2023 4:43:00 AM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	11/11/2023 4:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	78	61		mg/Kg	20	11/8/2023 8:53:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311217

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-30 0-4'

Project: Prometheus

Collection Date: 11/2/2023 3:50:00 PM

Lab ID: 2311217-002

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/8/2023 6:57:39 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2023 6:57:39 PM
Surr: DNOP	117	69-147		%Rec	1	11/8/2023 6:57:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 5:05:00 AM
Surr: BFB	102	15-244		%Rec	1	11/11/2023 5:05:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/11/2023 5:05:00 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 5:05:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 5:05:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/11/2023 5:05:00 AM
Surr: 4-Bromofluorobenzene	98.1	39.1-146		%Rec	1	11/11/2023 5:05:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 9:06:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311217

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-32 0-4'

Project: Prometheus

Collection Date: 11/2/2023 12:00:00 PM

Lab ID: 2311217-003

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/8/2023 7:08:21 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/8/2023 7:08:21 PM
Surr: DNOP	107	69-147		%Rec	1	11/8/2023 7:08:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 5:27:00 AM
Surr: BFB	104	15-244		%Rec	1	11/11/2023 5:27:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/11/2023 5:27:00 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 5:27:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 5:27:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/11/2023 5:27:00 AM
Surr: 4-Bromofluorobenzene	97.1	39.1-146		%Rec	1	11/11/2023 5:27:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 9:43:22 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311217

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-71 0-4'

Project: Prometheus

Collection Date: 11/2/2023 10:00:00 AM

Lab ID: 2311217-004

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/8/2023 7:19:03 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/8/2023 7:19:03 PM
Surr: DNOP	123	69-147		%Rec	1	11/8/2023 7:19:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 5:48:00 AM
Surr: BFB	105	15-244		%Rec	1	11/11/2023 5:48:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/11/2023 5:48:00 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 5:48:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 5:48:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/11/2023 5:48:00 AM
Surr: 4-Bromofluorobenzene	98.4	39.1-146		%Rec	1	11/11/2023 5:48:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 5:17:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311217

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-72 0-4'

Project: Prometheus

Collection Date: 11/2/2023 10:00:00 AM

Lab ID: 2311217-005

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/8/2023 7:29:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2023 7:29:45 PM
Surr: DNOP	104	69-147		%Rec	1	11/8/2023 7:29:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 6:10:00 AM
Surr: BFB	101	15-244		%Rec	1	11/11/2023 6:10:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	11/11/2023 6:10:00 AM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 6:10:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 6:10:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2023 6:10:00 AM
Surr: 4-Bromofluorobenzene	98.6	39.1-146		%Rec	1	11/11/2023 6:10:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 6:03:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311217

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-73 0-4'

Project: Prometheus

Collection Date: 11/2/2023 3:45:00 PM

Lab ID: 2311217-006

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/8/2023 7:40:28 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/8/2023 7:40:28 PM
Surr: DNOP	110	69-147		%Rec	1	11/8/2023 7:40:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 6:32:00 AM
Surr: BFB	99.9	15-244		%Rec	1	11/11/2023 6:32:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/11/2023 6:32:00 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 6:32:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 6:32:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/11/2023 6:32:00 AM
Surr: 4-Bromofluorobenzene	96.9	39.1-146		%Rec	1	11/11/2023 6:32:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	100	60		mg/Kg	20	11/8/2023 6:51:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-74 0-4'

Project: Prometheus

Collection Date: 11/2/2023 3:45:00 PM

Lab ID: 2311217-007

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/8/2023 7:51:11 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/8/2023 7:51:11 PM
Surr: DNOP	105	69-147		%Rec	1	11/8/2023 7:51:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 6:54:00 AM
Surr: BFB	102	15-244		%Rec	1	11/11/2023 6:54:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/11/2023 6:54:00 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 6:54:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 6:54:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/11/2023 6:54:00 AM
Surr: 4-Bromofluorobenzene	97.8	39.1-146		%Rec	1	11/11/2023 6:54:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 7:06:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311217
Date Reported: 11/16/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-66 4'
Project: Prometheus Collection Date: 11/2/2023 3:40:00 PM
Lab ID: 2311217-008 Matrix: SOIL Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/8/2023 8:01:54 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/8/2023 8:01:54 PM
Surr: DNOP	111	69-147		%Rec	1	11/8/2023 8:01:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/11/2023 7:37:00 AM
Surr: BFB	102	15-244		%Rec	1	11/11/2023 7:37:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	11/11/2023 7:37:00 AM
Toluene	ND	0.047		mg/Kg	1	11/11/2023 7:37:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/11/2023 7:37:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/11/2023 7:37:00 AM
Surr: 4-Bromofluorobenzene	96.5	39.1-146		%Rec	1	11/11/2023 7:37:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	510	60		mg/Kg	20	11/8/2023 7:52:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311217
Date Reported: 11/16/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-83 4'
Project: Prometheus Collection Date: 11/2/2023 10:05:00 AM
Lab ID: 2311217-009 Matrix: SOIL Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/8/2023 8:12:38 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/8/2023 8:12:38 PM
Surr: DNOP	120	69-147		%Rec	1	11/8/2023 8:12:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/11/2023 7:59:00 AM
Surr: BFB	103	15-244		%Rec	1	11/11/2023 7:59:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/11/2023 7:59:00 AM
Toluene	ND	0.047		mg/Kg	1	11/11/2023 7:59:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/11/2023 7:59:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/11/2023 7:59:00 AM
Surr: 4-Bromofluorobenzene	95.1	39.1-146		%Rec	1	11/11/2023 7:59:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1300	61		mg/Kg	20	11/8/2023 8:07:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311217

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-105 4'

Project: Prometheus

Collection Date: 11/2/2023 10:05:00 AM

Lab ID: 2311217-010

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/8/2023 8:23:32 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2023 8:23:32 PM
Surr: DNOP	116	69-147		%Rec	1	11/8/2023 8:23:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 8:21:00 AM
Surr: BFB	104	15-244		%Rec	1	11/11/2023 8:21:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/11/2023 8:21:00 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 8:21:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 8:21:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/11/2023 8:21:00 AM
Surr: 4-Bromofluorobenzene	97.7	39.1-146		%Rec	1	11/11/2023 8:21:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1600	60		mg/Kg	20	11/8/2023 8:22:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311217

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-106 4'

Project: Prometheus

Collection Date: 11/2/2023 12:30:00 PM

Lab ID: 2311217-011

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/8/2023 8:34:23 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/8/2023 8:34:23 PM
Surr: DNOP	120	69-147		%Rec	1	11/8/2023 8:34:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 8:43:00 AM
Surr: BFB	102	15-244		%Rec	1	11/11/2023 8:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/11/2023 8:43:00 AM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 8:43:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 8:43:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2023 8:43:00 AM
Surr: 4-Bromofluorobenzene	97.0	39.1-146		%Rec	1	11/11/2023 8:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	690	60		mg/Kg	20	11/8/2023 8:37:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311217

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-107 4'

Project: Prometheus

Collection Date: 11/2/2023 3:40:00 PM

Lab ID: 2311217-012

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/8/2023 6:02:25 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2023 6:02:25 AM
Surr: DNOP	109	69-147		%Rec	1	11/8/2023 6:02:25 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 8:55:20 AM
Surr: BFB	92.1	15-244		%Rec	1	11/11/2023 8:55:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 8:55:20 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 8:55:20 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 8:55:20 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/11/2023 8:55:20 AM
Surr: 4-Bromofluorobenzene	95.7	39.1-146		%Rec	1	11/11/2023 8:55:20 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	550	60		mg/Kg	20	11/8/2023 8:52:39 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311217

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-108 4'

Project: Prometheus

Collection Date: 11/2/2023 12:30:00 PM

Lab ID: 2311217-013

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/9/2023 6:52:56 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/9/2023 6:52:56 AM
Surr: DNOP	95.3	69-147		%Rec	1	11/9/2023 6:52:56 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 10:31:00 AM
Surr: BFB	106	15-244		%Rec	1	11/11/2023 10:31:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/11/2023 10:31:00 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 10:31:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 10:31:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/11/2023 10:31:00 AM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	11/11/2023 10:31:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	430	60		mg/Kg	20	11/8/2023 9:07:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311217

16-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78651	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78651	RunNo: 101036								
Prep Date: 11/8/2023	Analysis Date: 11/8/2023	SeqNo: 3710197		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78651	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 78651	RunNo: 101036								
Prep Date: 11/8/2023	Analysis Date: 11/8/2023	SeqNo: 3710198		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.0	90	110			

Sample ID: MB-78662	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78662	RunNo: 101068								
Prep Date: 11/8/2023	Analysis Date: 11/8/2023	SeqNo: 3710608		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78662	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 78662	RunNo: 101068								
Prep Date: 11/8/2023	Analysis Date: 11/8/2023	SeqNo: 3710609		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311217

16-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78622	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78622	RunNo: 101010								
Prep Date: 11/7/2023	Analysis Date: 11/7/2023	SeqNo: 3708232		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.0		10.00		80.3	69	147			

Sample ID: LCS-78622	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78622	RunNo: 101010								
Prep Date: 11/7/2023	Analysis Date: 11/7/2023	SeqNo: 3708233		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	109	61.9	130			
Surr: DNOP	3.6		5.000		72.7	69	147			

Sample ID: 2311217-012AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-107 4'	Batch ID: 78622	RunNo: 101010								
Prep Date: 11/7/2023	Analysis Date: 11/8/2023	SeqNo: 3708255		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	9.7	48.36	0	116	54.2	135			
Surr: DNOP	3.6		4.836		74.1	69	147			

Sample ID: 2311217-012AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-107 4'	Batch ID: 78622	RunNo: 101010								
Prep Date: 11/7/2023	Analysis Date: 11/8/2023	SeqNo: 3708256		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	9.7	48.59	0	116	54.2	135	1.16	29.2	
Surr: DNOP	3.6		4.859		73.8	69	147	0	0	

Sample ID: MB-78631	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78631	RunNo: 101039								
Prep Date: 11/7/2023	Analysis Date: 11/9/2023	SeqNo: 3710036		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		81.2	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311217

16-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-78631	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 78631		RunNo: 101039							
Prep Date: 11/7/2023	Analysis Date: 11/9/2023		SeqNo: 3710037		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	111	61.9	130			
Surr: DNOP	3.8		5.000		75.6	69	147			

Sample ID: 2311217-011AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BS23-106 4'	Batch ID: 78618		RunNo: 101067							
Prep Date: 11/7/2023	Analysis Date: 11/8/2023		SeqNo: 3710704		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.9	49.31	0	110	54.2	135			
Surr: DNOP	6.4		4.931		129	69	147			

Sample ID: 2311217-011AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BS23-106 4'	Batch ID: 78618		RunNo: 101067							
Prep Date: 11/7/2023	Analysis Date: 11/8/2023		SeqNo: 3710705		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.8	49.12	0	104	54.2	135	6.77	29.2	
Surr: DNOP	5.9		4.912		120	69	147	0	0	

Sample ID: LCS-78618	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 78618		RunNo: 101067							
Prep Date: 11/7/2023	Analysis Date: 11/8/2023		SeqNo: 3710706		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	61.9	130			
Surr: DNOP	6.3		5.000		126	69	147			

Sample ID: MB-78618	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 78618		RunNo: 101067							
Prep Date: 11/7/2023	Analysis Date: 11/8/2023		SeqNo: 3710708		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		97.8	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311217

16-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78602	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78602		RunNo: 101095							
Prep Date: 11/6/2023	Analysis Date: 11/10/2023		SeqNo: 3713006		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.3	70	130			
Surr: BFB	2200		1000		218	15	244			

Sample ID: mb-78602	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78602		RunNo: 101095							
Prep Date: 11/6/2023	Analysis Date: 11/10/2023		SeqNo: 3713007		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		109	15	244			

Sample ID: lcs-78605	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78605		RunNo: 101100							
Prep Date: 11/6/2023	Analysis Date: 11/10/2023		SeqNo: 3713152		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	82.0	70	130			
Surr: BFB	1900		1000		194	15	244			

Sample ID: mb-78605	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78605		RunNo: 101100							
Prep Date: 11/6/2023	Analysis Date: 11/10/2023		SeqNo: 3713154		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.9	15	244			

Sample ID: lcs-78619	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78619		RunNo: 101095							
Prep Date: 11/7/2023	Analysis Date: 11/11/2023		SeqNo: 3713277		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	90.0	70	130			
Surr: BFB	2300		1000		235	15	244			

Sample ID: mb-78619	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78619		RunNo: 101095							
Prep Date: 11/7/2023	Analysis Date: 11/11/2023		SeqNo: 3713278		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	90.0	70	130			
Surr: BFB	2300		1000		235	15	244			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311217

16-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: mb-78619	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: PBS	Batch ID: 78619	RunNo: 101095									
Prep Date: 11/7/2023	Analysis Date: 11/11/2023	SeqNo: 3713278		Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	1000		1000		102	15	244				

Sample ID: 2311217-013ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: BS23-108 4'	Batch ID: 78619	RunNo: 101095									
Prep Date: 11/7/2023	Analysis Date: 11/11/2023	SeqNo: 3713280		Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	21	4.8	24.25	0	87.0	70	130				
Surr: BFB	2200		969.9		229	15	244				

Sample ID: 2311217-013amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: BS23-108 4'	Batch ID: 78619	RunNo: 101095									
Prep Date: 11/7/2023	Analysis Date: 11/11/2023	SeqNo: 3713281		Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	20	4.8	24.08	0	82.3	70	130	6.25	20		
Surr: BFB	2200		963.4		226	15	244	0	0		

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311217

16-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78602	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 78602			RunNo: 101095						
Prep Date: 11/6/2023	Analysis Date: 11/10/2023			SeqNo: 3713013		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	70	130			
Toluene	1.0	0.050	1.000	0	102	70	130			
Ethylbenzene	1.0	0.050	1.000	0	104	70	130			
Xylenes, Total	3.1	0.10	3.000	0	104	70	130			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	39.1	146			

Sample ID: mb-78602	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 78602			RunNo: 101095						
Prep Date: 11/6/2023	Analysis Date: 11/10/2023			SeqNo: 3713014		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: LCS-78605	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 78605			RunNo: 101100						
Prep Date: 11/6/2023	Analysis Date: 11/10/2023			SeqNo: 3713201		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.2	70	130			
Toluene	0.93	0.050	1.000	0	93.4	70	130			
Ethylbenzene	0.94	0.050	1.000	0	94.0	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.9	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.3	39.1	146			

Sample ID: mb-78605	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 78605			RunNo: 101100						
Prep Date: 11/6/2023	Analysis Date: 11/10/2023			SeqNo: 3713203		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311217

16-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78619	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 78619				RunNo: 101095					
Prep Date: 11/7/2023	Analysis Date: 11/11/2023				SeqNo: 3713318	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	107	70	130			
Toluene	1.1	0.050	1.000	0	106	70	130			
Ethylbenzene	1.1	0.050	1.000	0	108	70	130			
Xylenes, Total	3.3	0.10	3.000	0	109	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.9	39.1	146			

Sample ID: mb-78619	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 78619				RunNo: 101095					
Prep Date: 11/7/2023	Analysis Date: 11/11/2023				SeqNo: 3713319	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	39.1	146			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit



Environment Testin

Eurofins Environment Testing South
Central, LLC

4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2311217

RcptNo: 1

Received By: Tracy Casarrubias

11/4/2023 9:00:00 AM

Completed By: Tracy Casarrubias

11/4/2023 10:17:33 AM

Reviewed By:

CMC

11/6/23

Chain of Custody1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐2. How was the sample delivered? CourierLog In3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐5. Sample(s) in proper container(s)? Yes ☒ No ☐6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐13. Is it clear what analyses were requested? Yes ☒ No ☐14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: TMC 11/4/23

Special Handling (if applicable)15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Mailing address, phone number and Email/Fax are missing on COC- TMC 11/4/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes	Yogi		

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Turn-Around Time:

☐ Standard ☒ Rush_72-hour rush

Mailing Address:

Project Name:

Prometheus

Project #:

Phone #:

23E-03329

email or Fax#:

Project Manager:

QA/QC Package:

Kent Stallings

MMoffitt@vertex.ca

Accreditation: ☐ Az Compliance

Sampler: L. Pullman

☐ NELAC ☐ Other


On Ice: ☒ Yes ☐ No

☐ EDD (Type)

of Coolers: 1

Cooler Temp (including CF): 21.0 - 23.0 °C

Date	Time	Matrix	Sample Name	Cooler Temp(including CF): 3.6 - 3.6 °C			MT BTEX	TPH:8015D	8081 Pestic	EDB (Metho)	PAHs by 83	RCRA 8 Met	Cl, F, Br, I	8260 (VOA)	8270 (Semi)	Total Colifo					
				Container Type and #	Preservative Type	HEAL No. 2311217															
11/02/23	12:00	Soil	WS23-29 0-4'	1, 4oz jar		001	X	X					X								
11/02/23	15:50	Soil	WS23-30 0-4'	1, 4oz jar		002	X	X					X								
11/02/23	12:00	Soil	WS23-32 0-4'	1, 4oz jar		003	X	X					X								
11/02/23	10:00	Soil	WS23-71 0-4'	1, 4oz jar		004	X	X					X								
11/02/23	10:00	Soil	WS23-72 0-4'	1, 4oz jar		005	X	X					X								
11/02/23	15:45	Soil	WS23-73 0-4'	1, 4oz jar		006	X	X					X								
11/02/23	15:45	Soil	WS23-74 0-4'	1, 4oz jar		007	X	X					X								
11/02/23	15:40	Soil	BS23-66 4'	1, 4oz jar		008	X	X					X								
11/02/23	10:05	Soil	BS23-83 4'	1, 4oz jar		009	X	X					X								
11/02/23	10:05	Soil	BS23-105 4'	1, 4oz jar		010	X	X					X								
11/02/23	12:30	Soil	BS23-106 4'	1, 4oz jar		011	X	X					X								
11/02/23	15:40	Soil	BS23-107 4'	1, 4oz jar		012	X	X					X								

Date:	Time:	Relinquished by:
11-3-23	07:00	

Received by:	Via:	Date	Time
<i>[Signature]</i>		11/3/13	0700

Date:	Time:	Relinquished by:
11/3/13	1100	[Signature]

Received by: Via: counter Date 11/4/23 Time 9:00

Remarks:
Ace Fluid Solutions
cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report

1/2

~~If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.~~

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Received by: OCD: 2/8/2024 6:26:45 PM

Chain-of-Custody Record

Client: Vertex				Turn-Around Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <u>72-hour</u> rush			
Mailing Address:				Project Name: Prometheus			
Phone #:				Project #: 23E-03329			
email or Fax#:				Project Manager: Kent Stallings MMoffitt@vertex.ca			
QA/QC Package: <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)				Sampler: L. Pullman			
Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other _____				On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>4oz</u>			
<input type="checkbox"/> EDD (Type) _____				# of Coolers: 1			
				Cooler Temp (including CF): <u>3.0 - 8 = 3.0 °C</u>			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	
11/02/23	12:30	Soil	BS23-108 4'	1, 4oz jar		2311217 013	
Date:	Time:	Relinquished by:		Received by:	Via:	Date	Time
11-2-23	0700	<i>L. Pullman</i>		<i>[Signature]</i>		11/3/23	0700
Date:	Time:	Relinquished by:		Received by:	Via:	Date	Time
11/3/23	1900	<i>[Signature]</i>		<i>[Signature]</i>	<i>Carver</i>	11/4/23	9:00

[illegible]

Remarks:
Ace Fluid Solutions
cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report

2/2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

November 17, 2023

Kent Stallings
Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL: (505) 506-0040
FAX:

RE: Prometheus

OrderNo.: 2311276

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 11 sample(s) on 11/7/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2311276

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-26 0-4'

Project: Prometheus

Collection Date: 11/3/2023 10:50:00 AM

Lab ID: 2311276-001

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/10/2023 12:22:33 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/10/2023 12:22:33 PM
Surr: DNOP	117	69-147		%Rec	1	11/10/2023 12:22:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 11:16:06 AM
Surr: BFB	93.2	15-244		%Rec	1	11/11/2023 11:16:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 11:16:06 AM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 11:16:06 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 11:16:06 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/11/2023 11:16:06 AM
Surr: 4-Bromofluorobenzene	95.7	39.1-146		%Rec	1	11/11/2023 11:16:06 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	100	60		mg/Kg	20	11/9/2023 11:30:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1 of 16

Analytical Report

Lab Order 2311276

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-27 0-4'

Project: Prometheus

Collection Date: 11/3/2023 11:00:00 AM

Lab ID: 2311276-002

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/10/2023 12:33:24 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/10/2023 12:33:24 PM
Surr: DNOP	102	69-147		%Rec	1	11/10/2023 12:33:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 11:39:33 AM
Surr: BFB	94.4	15-244		%Rec	1	11/11/2023 11:39:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 11:39:33 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 11:39:33 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 11:39:33 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/11/2023 11:39:33 AM
Surr: 4-Bromofluorobenzene	99.6	39.1-146		%Rec	1	11/11/2023 11:39:33 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	66	60		mg/Kg	20	11/9/2023 11:42:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 2 of 16

Analytical Report

Lab Order 2311276

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-28 0-4'

Project: Prometheus

Collection Date: 11/3/2023 11:25:00 AM

Lab ID: 2311276-003

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/10/2023 12:49:50 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/10/2023 12:49:50 PM
Surr: DNOP	100	69-147		%Rec	1	11/10/2023 12:49:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 12:02:50 PM
Surr: BFB	95.1	15-244		%Rec	1	11/11/2023 12:02:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 12:02:50 PM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 12:02:50 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 12:02:50 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2023 12:02:50 PM
Surr: 4-Bromofluorobenzene	99.5	39.1-146		%Rec	1	11/11/2023 12:02:50 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	11/9/2023 11:55:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311276

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-45 0-4'

Project: Prometheus

Collection Date: 11/3/2023 9:55:00 AM

Lab ID: 2311276-004

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	13	9.7		mg/Kg	1	11/10/2023 1:00:22 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/10/2023 1:00:22 PM
Surr: DNOP	102	69-147		%Rec	1	11/10/2023 1:00:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 12:26:24 PM
Surr: BFB	92.2	15-244		%Rec	1	11/11/2023 12:26:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 12:26:24 PM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 12:26:24 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 12:26:24 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/11/2023 12:26:24 PM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	11/11/2023 12:26:24 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	85	60		mg/Kg	20	11/10/2023 12:07:47 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311276
Date Reported: 11/17/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-46 0-4'
Project: Prometheus Collection Date: 11/3/2023 11:30:00 AM
Lab ID: 2311276-005 Matrix: SOIL Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/9/2023 8:29:24 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/9/2023 8:29:24 PM
Surr: DNOP	109	69-147		%Rec	1	11/9/2023 8:29:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 12:50:04 PM
Surr: BFB	93.1	15-244		%Rec	1	11/11/2023 12:50:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 12:50:04 PM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 12:50:04 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 12:50:04 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/11/2023 12:50:04 PM
Surr: 4-Bromofluorobenzene	97.1	39.1-146		%Rec	1	11/11/2023 12:50:04 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/9/2023 8:13:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311276

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-47 0-4

Project: Prometheus

Collection Date: 11/3/2023 10:45:00 AM

Lab ID: 2311276-006

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/9/2023 9:00:52 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/9/2023 9:00:52 PM
Surr: DNOP	104	69-147		%Rec	1	11/9/2023 9:00:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/11/2023 1:13:44 PM
Surr: BFB	92.9	15-244		%Rec	1	11/11/2023 1:13:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 1:13:44 PM
Toluene	ND	0.047		mg/Kg	1	11/11/2023 1:13:44 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/11/2023 1:13:44 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/11/2023 1:13:44 PM
Surr: 4-Bromofluorobenzene	96.9	39.1-146		%Rec	1	11/11/2023 1:13:44 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/9/2023 8:59:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311276

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-75 0-4

Project: Prometheus

Collection Date: 11/3/2023 8:30:00 AM

Lab ID: 2311276-007

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/9/2023 9:11:23 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/9/2023 9:11:23 PM
Surr: DNOP	111	69-147		%Rec	1	11/9/2023 9:11:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 1:37:19 PM
Surr: BFB	91.0	15-244		%Rec	1	11/11/2023 1:37:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/11/2023 1:37:19 PM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 1:37:19 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 1:37:19 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2023 1:37:19 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	11/11/2023 1:37:19 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/10/2023 8:46:18 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311276

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-61 4'

Project: Prometheus

Collection Date: 11/3/2023 10:45:00 AM

Lab ID: 2311276-008

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/9/2023 9:21:52 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/9/2023 9:21:52 PM
Surr: DNOP	124	69-147		%Rec	1	11/9/2023 9:21:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 2:00:48 PM
Surr: BFB	92.2	15-244		%Rec	1	11/11/2023 2:00:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 2:00:48 PM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 2:00:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 2:00:48 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2023 2:00:48 PM
Surr: 4-Bromofluorobenzene	95.6	39.1-146		%Rec	1	11/11/2023 2:00:48 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	310	60		mg/Kg	20	11/10/2023 8:58:43 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311276

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-64 4'

Project: Prometheus

Collection Date: 11/3/2023 11:20:00 AM

Lab ID: 2311276-009

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/9/2023 9:32:20 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/9/2023 9:32:20 PM
Surr: DNOP	121	69-147		%Rec	1	11/9/2023 9:32:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 2:24:20 PM
Surr: BFB	93.3	15-244		%Rec	1	11/11/2023 2:24:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 2:24:20 PM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 2:24:20 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 2:24:20 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2023 2:24:20 PM
Surr: 4-Bromofluorobenzene	95.1	39.1-146		%Rec	1	11/11/2023 2:24:20 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	130	60		mg/Kg	20	11/10/2023 9:11:08 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311276

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-65 4'

Project: Prometheus

Collection Date: 11/3/2023 9:50:00 AM

Lab ID: 2311276-010

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/9/2023 9:42:47 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/9/2023 9:42:47 PM
Surr: DNOP	159	69-147	S	%Rec	1	11/9/2023 9:42:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/11/2023 2:47:49 PM
Surr: BFB	99.1	15-244		%Rec	1	11/11/2023 2:47:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/11/2023 2:47:49 PM
Toluene	ND	0.047		mg/Kg	1	11/11/2023 2:47:49 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/11/2023 2:47:49 PM
Xylenes, Total	ND	0.093		mg/Kg	1	11/11/2023 2:47:49 PM
Surr: 4-Bromofluorobenzene	97.8	39.1-146		%Rec	1	11/11/2023 2:47:49 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	360	60		mg/Kg	20	11/10/2023 9:23:32 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311276

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-109 4'

Project: Prometheus

Collection Date: 11/3/2023 4:30:00 PM

Lab ID: 2311276-011

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/9/2023 9:53:15 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/9/2023 9:53:15 PM
Surr: DNOP	120	69-147		%Rec	1	11/9/2023 9:53:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 8:01:51 PM
Surr: BFB	94.5	15-244		%Rec	1	11/11/2023 8:01:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 8:01:51 PM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 8:01:51 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 8:01:51 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/11/2023 8:01:51 PM
Surr: 4-Bromofluorobenzene	96.5	39.1-146		%Rec	1	11/11/2023 8:01:51 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	520	60		mg/Kg	20	11/10/2023 9:35:57 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311276

17-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78694	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 78694	RunNo: 101073
Prep Date: 11/9/2023	Analysis Date: 11/9/2023	SeqNo: 3711697 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-78694	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 78694	RunNo: 101073
Prep Date: 11/9/2023	Analysis Date: 11/9/2023	SeqNo: 3711698 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 92.3 90 110

Sample ID: MB-78695	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 78695	RunNo: 101078
Prep Date: 11/9/2023	Analysis Date: 11/9/2023	SeqNo: 3712671 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-78695	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 78695	RunNo: 101078
Prep Date: 11/9/2023	Analysis Date: 11/9/2023	SeqNo: 3712672 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.7 90 110

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311276

17-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2311276-011AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-109 4'	Batch ID: 78648	RunNo: 101077								
Prep Date: 11/8/2023	Analysis Date: 11/9/2023	SeqNo: 3711222		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	49.90	0	102	54.2	135			
Surr: DNOP	6.3		4.990		126	69	147			

Sample ID: 2311276-011AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-109 4'	Batch ID: 78648	RunNo: 101077								
Prep Date: 11/8/2023	Analysis Date: 11/9/2023	SeqNo: 3711223		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.4	46.90	0	83.1	54.2	135	26.3	29.2	
Surr: DNOP	4.4		4.690		93.2	69	147	0	0	

Sample ID: LCS-78648	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78648	RunNo: 101077								
Prep Date: 11/8/2023	Analysis Date: 11/9/2023	SeqNo: 3711226		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	119	61.9	130			
Surr: DNOP	6.6		5.000		132	69	147			

Sample ID: MB-78648	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78648	RunNo: 101077								
Prep Date: 11/8/2023	Analysis Date: 11/9/2023	SeqNo: 3711227		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		112	69	147			

Sample ID: LCS-78701	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78701	RunNo: 101089								
Prep Date: 11/10/2023	Analysis Date: 11/11/2023	SeqNo: 3713386		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		96.9	69	147			

Sample ID: MB-78701	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78701	RunNo: 101089								
Prep Date: 11/10/2023	Analysis Date: 11/11/2023	SeqNo: 3713388		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311276

17-Nov-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: MB-78701	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78701	RunNo: 101089								
Prep Date: 11/10/2023	Analysis Date: 11/11/2023	SeqNo: 3713388			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	69	147			

Sample ID: MB-78708	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78708	RunNo: 101132								
Prep Date: 11/10/2023	Analysis Date: 11/10/2023	SeqNo: 3714454			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		102	69	147			

Sample ID: LCS-78708	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78708	RunNo: 101132								
Prep Date: 11/10/2023	Analysis Date: 11/10/2023	SeqNo: 3714455			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		101	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311276

17-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78633	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78633			RunNo: 101100						
Prep Date: 11/7/2023	Analysis Date: 11/11/2023			SeqNo: 3713153		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	25.00	0	74.1	70	130			
Surr: BFB	1900		1000		191	15	244			

Sample ID: mb-78633	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78633			RunNo: 101100						
Prep Date: 11/7/2023	Analysis Date: 11/11/2023			SeqNo: 3713155		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.4	15	244			

Sample ID: 2311276-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: WS23-26 0-4'	Batch ID: 78633			RunNo: 101125						
Prep Date: 11/7/2023	Analysis Date: 11/11/2023			SeqNo: 3714036		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	4.9	24.41	0	69.3	70	130			S
Surr: BFB	2000		976.6		204	15	244			

Sample ID: 2311276-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: WS23-26 0-4'	Batch ID: 78633			RunNo: 101125						
Prep Date: 11/7/2023	Analysis Date: 11/12/2023			SeqNo: 3714037		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	4.9	24.32	0	65.1	70	130	6.64	20	S
Surr: BFB	1900		972.8		190	15	244	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311276

17-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-78633	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78633		RunNo: 101100							
Prep Date: 11/7/2023	Analysis Date: 11/11/2023		SeqNo: 3713202		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.7	70	130			
Toluene	0.95	0.050	1.000	0	94.5	70	130			
Ethylbenzene	0.96	0.050	1.000	0	96.1	70	130			
Xylenes, Total	2.9	0.10	3.000	0	95.8	70	130			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.0	39.1	146			

Sample ID: mb-78633	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78633		RunNo: 101100							
Prep Date: 11/7/2023	Analysis Date: 11/11/2023		SeqNo: 3713204		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.3	39.1	146			

Sample ID: 2311276-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-27 0-4'	Batch ID: 78633		RunNo: 101125							
Prep Date: 11/7/2023	Analysis Date: 11/12/2023		SeqNo: 3714099		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9643	0	88.7	70	130			
Toluene	0.87	0.048	0.9643	0	90.1	70	130			
Ethylbenzene	0.88	0.048	0.9643	0	91.2	70	130			
Xylenes, Total	2.7	0.096	2.893	0	91.8	70	130			
Surr: 4-Bromofluorobenzene	0.91		0.9643		94.6	39.1	146			

Sample ID: 2311276-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-27 0-4'	Batch ID: 78633		RunNo: 101125							
Prep Date: 11/7/2023	Analysis Date: 11/12/2023		SeqNo: 3714100		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.024	0.9597	0	88.9	70	130	0.222	20	
Toluene	0.86	0.048	0.9597	0	89.1	70	130	1.56	20	
Ethylbenzene	0.87	0.048	0.9597	0	90.3	70	130	1.57	20	
Xylenes, Total	2.6	0.096	2.879	0	90.4	70	130	2.04	20	
Surr: 4-Bromofluorobenzene	0.92		0.9597		96.4	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2311276

RcptNo: 1

Received By: Juan Rojas

11/7/2023 7:25:00 AM

Completed By: Cheyenne Cason

11/7/2023 7:50:28 AM

Reviewed By:

SCM 11/7/23

Juan Rojas

Cheyenne Cason

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: ju 11/7/23Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Not Present	Yogi		

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Client: **Vertex**

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush_72-hour rush
Project Name:
Prometheus
Project #:
23E-03329
Project Manager:
Kent Stallings
MMoffitt@vertex.ca

Sampler:	L. Pullman
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
# of Coolers:	1 <i>you</i>
Cooler Temp (including CF):	<i>1.7 + 0.1 = 1.8</i>

[illegible]

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/6/23	07:00	Sabir P. Wilson	acummin		11/6/23	7:00
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/6/23	1:00	acummin	Strewler		11/7/23	

Remarks:
Ace Fluid Solutions
cc. MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 17, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2311345

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 8 sample(s) on 11/8/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311345

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-23 0-4'

Project: Prometheus

Collection Date: 11/6/2023 2:25:00 PM

Lab ID: 2311345-001

Matrix: SOIL

Received Date: 11/8/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/11/2023 3:30:47 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/11/2023 3:30:47 AM
Surr: DNOP	93.7	69-147		%Rec	1	11/11/2023 3:30:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/13/2023 10:13:00 AM
Surr: BFB	104	15-244		%Rec	1	11/13/2023 10:13:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	11/13/2023 10:13:00 AM
Toluene	ND	0.049		mg/Kg	1	11/13/2023 10:13:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/13/2023 10:13:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/13/2023 10:13:00 AM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	11/13/2023 10:13:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	61	60		mg/Kg	20	11/10/2023 6:29:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311345

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-24 0-4'

Project: Prometheus

Collection Date: 11/6/2023 2:20:00 PM

Lab ID: 2311345-002

Matrix: SOIL

Received Date: 11/8/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/11/2023 3:41:18 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/11/2023 3:41:18 AM
Surr: DNOP	96.0	69-147		%Rec	1	11/11/2023 3:41:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/13/2023 10:35:00 AM
Surr: BFB	107	15-244		%Rec	1	11/13/2023 10:35:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/13/2023 10:35:00 AM
Toluene	ND	0.049		mg/Kg	1	11/13/2023 10:35:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/13/2023 10:35:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/13/2023 10:35:00 AM
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	11/13/2023 10:35:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	250	60		mg/Kg	20	11/10/2023 6:41:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311345

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-25 0-4'

Project: Prometheus

Collection Date: 11/6/2023 11:05:00 AM

Lab ID: 2311345-003

Matrix: SOIL

Received Date: 11/8/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/11/2023 3:51:58 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/11/2023 3:51:58 AM
Surr: DNOP	98.3	69-147		%Rec	1	11/11/2023 3:51:58 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/13/2023 10:57:00 AM
Surr: BFB	104	15-244		%Rec	1	11/13/2023 10:57:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/13/2023 10:57:00 AM
Toluene	ND	0.048		mg/Kg	1	11/13/2023 10:57:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/13/2023 10:57:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/13/2023 10:57:00 AM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	11/13/2023 10:57:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	720	60		mg/Kg	20	11/10/2023 6:54:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311345

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-48 0-4'

Project: Prometheus

Collection Date: 11/6/2023 11:10:00 AM

Lab ID: 2311345-004

Matrix: SOIL

Received Date: 11/8/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/11/2023 4:02:26 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/11/2023 4:02:26 AM
Surr: DNOP	94.3	69-147		%Rec	1	11/11/2023 4:02:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/13/2023 11:19:00 AM
Surr: BFB	109	15-244		%Rec	1	11/13/2023 11:19:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/13/2023 11:19:00 AM
Toluene	ND	0.048		mg/Kg	1	11/13/2023 11:19:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/13/2023 11:19:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/13/2023 11:19:00 AM
Surr: 4-Bromofluorobenzene	99.3	39.1-146		%Rec	1	11/13/2023 11:19:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/10/2023 7:06:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311345

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-49 0-4'

Project: Prometheus

Collection Date: 11/6/2023 2:25:00 PM

Lab ID: 2311345-005

Matrix: SOIL

Received Date: 11/8/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/11/2023 4:12:54 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/11/2023 4:12:54 AM
Surr: DNOP	97.7	69-147		%Rec	1	11/11/2023 4:12:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/13/2023 11:40:00 AM
Surr: BFB	99.2	15-244		%Rec	1	11/13/2023 11:40:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	11/13/2023 11:40:00 AM
Toluene	ND	0.050		mg/Kg	1	11/13/2023 11:40:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/13/2023 11:40:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/13/2023 11:40:00 AM
Surr: 4-Bromofluorobenzene	96.5	39.1-146		%Rec	1	11/13/2023 11:40:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	76	60		mg/Kg	20	11/10/2023 7:18:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311345

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-50 0-4'

Project: Prometheus

Collection Date: 11/6/2023 2:30:00 PM

Lab ID: 2311345-006

Matrix: SOIL

Received Date: 11/8/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/11/2023 4:23:21 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/11/2023 4:23:21 AM
Surr: DNOP	94.4	69-147		%Rec	1	11/11/2023 4:23:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/13/2023 12:02:00 PM
Surr: BFB	106	15-244		%Rec	1	11/13/2023 12:02:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/13/2023 12:02:00 PM
Toluene	ND	0.048		mg/Kg	1	11/13/2023 12:02:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/13/2023 12:02:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/13/2023 12:02:00 PM
Surr: 4-Bromofluorobenzene	99.7	39.1-146		%Rec	1	11/13/2023 12:02:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/10/2023 7:31:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311345

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-62 4'

Project: Prometheus

Collection Date: 11/6/2023 12:00:00 PM

Lab ID: 2311345-007

Matrix: SOIL

Received Date: 11/8/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/11/2023 4:33:45 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/11/2023 4:33:45 AM
Surr: DNOP	95.6	69-147		%Rec	1	11/11/2023 4:33:45 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/13/2023 12:24:00 PM
Surr: BFB	107	15-244		%Rec	1	11/13/2023 12:24:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	11/13/2023 12:24:00 PM
Toluene	ND	0.049		mg/Kg	1	11/13/2023 12:24:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/13/2023 12:24:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/13/2023 12:24:00 PM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	11/13/2023 12:24:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	360	60		mg/Kg	20	11/10/2023 7:43:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311345

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-63 4'

Project: Prometheus

Collection Date: 11/6/2023 11:45:00 AM

Lab ID: 2311345-008

Matrix: SOIL

Received Date: 11/8/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/11/2023 4:44:06 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/11/2023 4:44:06 AM
Surr: DNOP	103	69-147		%Rec	1	11/11/2023 4:44:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/13/2023 12:46:00 PM
Surr: BFB	104	15-244		%Rec	1	11/13/2023 12:46:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	11/13/2023 12:46:00 PM
Toluene	ND	0.046		mg/Kg	1	11/13/2023 12:46:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/13/2023 12:46:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	11/13/2023 12:46:00 PM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	11/13/2023 12:46:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	370	60		mg/Kg	20	11/10/2023 7:56:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311345

17-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78713	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78713	RunNo: 101133								
Prep Date: 11/10/2023	Analysis Date: 11/10/2023	SeqNo: 3714641		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78713	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 78713	RunNo: 101133								
Prep Date: 11/10/2023	Analysis Date: 11/10/2023	SeqNo: 3714642		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311345

17-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-78701	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 78701		RunNo: 101089							
Prep Date: 11/10/2023	Analysis Date: 11/11/2023		SeqNo: 3713386		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.3	61.9	130			
Surr: DNOP	4.8		5.000		96.9	69	147			

Sample ID: MB-78701	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 78701		RunNo: 101089							
Prep Date: 11/10/2023	Analysis Date: 11/11/2023		SeqNo: 3713388		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	69	147			

Sample ID: LCS-78707	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 78707		RunNo: 101124							
Prep Date: 11/10/2023	Analysis Date: 11/13/2023		SeqNo: 3714787		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		89.0	69	147			

Sample ID: MB-78707	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 78707		RunNo: 101124							
Prep Date: 11/10/2023	Analysis Date: 11/13/2023		SeqNo: 3714789		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.5	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311345

17-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: ics-78650	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78650		RunNo: 101136							
Prep Date: 11/8/2023	Analysis Date: 11/13/2023		SeqNo: 3714727		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.9	70	130			
Surr: BFB	2200		1000		218	15	244			

Sample ID: mb-78650	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78650		RunNo: 101136							
Prep Date: 11/8/2023	Analysis Date: 11/13/2023		SeqNo: 3714728		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	15	244			

Sample ID: 2311345-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS23-23 0-4'	Batch ID: 78650		RunNo: 101136							
Prep Date: 11/8/2023	Analysis Date: 11/13/2023		SeqNo: 3716470		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.56	0	96.1	70	130			
Surr: BFB	2200		982.3		221	15	244			

Sample ID: 2311345-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS23-23 0-4'	Batch ID: 78650		RunNo: 101136							
Prep Date: 11/8/2023	Analysis Date: 11/13/2023		SeqNo: 3716471		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.56	0	94.2	70	130	2.02	20	
Surr: BFB	2100		982.3		211	15	244	0	0	

Sample ID: ics-78628	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78628		RunNo: 101136							
Prep Date: 11/7/2023	Analysis Date: 11/13/2023		SeqNo: 3716472		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		220	15	244			

Sample ID: mb-78628	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78628		RunNo: 101136							
Prep Date: 11/7/2023	Analysis Date: 11/13/2023		SeqNo: 3716473		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311345

17-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78650	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78650		RunNo: 101136							
Prep Date: 11/8/2023	Analysis Date: 11/13/2023		SeqNo: 3714737		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.8	70	130			
Toluene	0.98	0.050	1.000	0	98.1	70	130			
Ethylbenzene	1.0	0.050	1.000	0	100	70	130			
Xylenes, Total	3.0	0.10	3.000	0	99.5	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	39.1	146			

Sample ID: mb-78650	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78650		RunNo: 101136							
Prep Date: 11/8/2023	Analysis Date: 11/13/2023		SeqNo: 3714738		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	39.1	146			

Sample ID: 2311345-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-24 0-4'	Batch ID: 78650		RunNo: 101136							
Prep Date: 11/8/2023	Analysis Date: 11/13/2023		SeqNo: 3716503		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9728	0	94.5	70	130			
Toluene	0.92	0.049	0.9728	0	94.6	70	130			
Ethylbenzene	0.94	0.049	0.9728	0	96.5	70	130			
Xylenes, Total	2.8	0.097	2.918	0	97.1	70	130			
Surr: 4-Bromofluorobenzene	0.94		0.9728		96.8	39.1	146			

Sample ID: 2311345-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-24 0-4'	Batch ID: 78650		RunNo: 101136							
Prep Date: 11/8/2023	Analysis Date: 11/13/2023		SeqNo: 3716504		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9737	0	92.4	70	130	2.19	20	
Toluene	0.91	0.049	0.9737	0	93.5	70	130	1.05	20	
Ethylbenzene	0.92	0.049	0.9737	0	94.3	70	130	2.24	20	
Xylenes, Total	2.7	0.097	2.921	0	93.8	70	130	3.32	20	
Surr: 4-Bromofluorobenzene	0.96		0.9737		98.6	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Environment Testin

Eurofins Environment Testing South
Central, LLC4901 Hawkins NE
Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenviromental.com

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2311345

RcptNo: 1

Received By: Tracy Casarrubias 11/8/2023 7:35:00 AM

Completed By: Tracy Casarrubias 11/8/2023 8:14:29 AM

Reviewed By: *JM 11-8-23*Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ *TMC 11/8/23* No ☒
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *SEM 11/8/23*Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☒ No ☐ NA ☒ *TMC 11/8/23*

Person Notified: *TMC*Date: *11/8/23*

By Whom:

*Tracy Casarrubias*Via: ☐ eMail ☒ Phone ☐ Fax ☐ In Person

Regarding:

Name discrepancy

Client Instructions:

Mailing address, phone number and Email/Fax are missing on COC- TMC 11/13/23

16. Additional remarks:

*sample labels are accurate. changing sample names to "WS-" instead of "WES-" for samples 001A-006A - TMC 11/8/23*17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Vertex

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 72 hr

Project Name:

Promethews

Project #:

23E-03329

Project Manager:

Michael MoffittSampler: Bryce Mortimer & Sally CarttarOn Ice: ☒ Yes ☐ No Yes# of Coolers: 1Cooler Temp (including CF): 24.0 = 2.4 (°C)

Date Time Matrix Sample Name

11-06-23 7:25 Soil WES23-23 0-4' 4oz jar Ice

7:20 WES23-24 0-4'

11:05 WES23-25 0-4'

11:10 WES23-48 0-4'

2:25 WES23-49 0-4'

2:30 WES23-50 0-4'

12:00 BS23-62 4'

11:45 BS23-63 4'

Container Type and #

Preservative Type

HEAL No.

2311345

BTX/ MTBE / TMB's (8021)

PH:8015D/GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

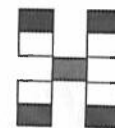
Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Analysis Request



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date: 11-06-23 Time: Relinquished by: Bryce Mortimer

Received by: W. Mortimer Via: W. Mortimer Date: 11/1/23 Time: 1000

Remarks: Ace Fluid Solutions

Date: 11/7/23 Time: 1900 Relinquished by: W. Mortimer

Received by: W. Mortimer Via: W. Mortimer Date: 11/8/23 Time: 7:35

cc MMoffitt@vertex.ca, SCarttar@vertex.ca for Final Report



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

November 17, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2311451

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 8 sample(s) on 11/9/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311451

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-22 0-4'

Project: Prometheus

Collection Date: 11/7/2023 9:35:00 AM

Lab ID: 2311451-001

Matrix: SOIL

Received Date: 11/9/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/11/2023 12:46:21 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/11/2023 12:46:21 PM
Surr: DNOP	109	69-147		%Rec	1	11/11/2023 12:46:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/14/2023 5:25:54 AM
Surr: BFB	91.2	15-244		%Rec	1	11/14/2023 5:25:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/14/2023 5:25:54 AM
Toluene	ND	0.048		mg/Kg	1	11/14/2023 5:25:54 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/14/2023 5:25:54 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/14/2023 5:25:54 AM
Surr: 4-Bromofluorobenzene	82.6	39.1-146		%Rec	1	11/14/2023 5:25:54 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	280	60		mg/Kg	20	11/13/2023 11:24:10 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311451

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-51 0-4'

Project: Prometheus

Collection Date: 11/7/2023 9:40:00 AM

Lab ID: 2311451-002

Matrix: SOIL

Received Date: 11/9/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/11/2023 1:10:09 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/11/2023 1:10:09 PM
Surr: DNOP	106	69-147		%Rec	1	11/11/2023 1:10:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/14/2023 5:49:11 AM
Surr: BFB	83.4	15-244		%Rec	1	11/14/2023 5:49:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/14/2023 5:49:11 AM
Toluene	ND	0.048		mg/Kg	1	11/14/2023 5:49:11 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/14/2023 5:49:11 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/14/2023 5:49:11 AM
Surr: 4-Bromofluorobenzene	83.1	39.1-146		%Rec	1	11/14/2023 5:49:11 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	59		mg/Kg	20	11/13/2023 12:01:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311451

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-52 0-4'

Project: Prometheus

Collection Date: 11/7/2023 9:45:00 AM

Lab ID: 2311451-003

Matrix: SOIL

Received Date: 11/9/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/11/2023 1:33:56 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/11/2023 1:33:56 PM
Surr: DNOP	101	69-147		%Rec	1	11/11/2023 1:33:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/14/2023 6:35:45 AM
Surr: BFB	83.3	15-244		%Rec	1	11/14/2023 6:35:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/14/2023 6:35:45 AM
Toluene	ND	0.050		mg/Kg	1	11/14/2023 6:35:45 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/14/2023 6:35:45 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/14/2023 6:35:45 AM
Surr: 4-Bromofluorobenzene	84.2	39.1-146		%Rec	1	11/14/2023 6:35:45 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	450	61		mg/Kg	20	11/13/2023 12:13:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311451

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-76 0-4'

Project: Prometheus

Collection Date: 11/7/2023 9:40:00 AM

Lab ID: 2311451-004

Matrix: SOIL

Received Date: 11/9/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/11/2023 1:57:45 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/11/2023 1:57:45 PM
Surr: DNOP	104	69-147		%Rec	1	11/11/2023 1:57:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/14/2023 6:59:02 AM
Surr: BFB	83.9	15-244		%Rec	1	11/14/2023 6:59:02 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/14/2023 6:59:02 AM
Toluene	ND	0.046		mg/Kg	1	11/14/2023 6:59:02 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/14/2023 6:59:02 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/14/2023 6:59:02 AM
Surr: 4-Bromofluorobenzene	85.1	39.1-146		%Rec	1	11/14/2023 6:59:02 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	11/13/2023 12:26:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311451

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-57 4'

Project: Prometheus

Collection Date: 11/7/2023 1:25:00 PM

Lab ID: 2311451-005

Matrix: SOIL

Received Date: 11/9/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/11/2023 2:21:36 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/11/2023 2:21:36 PM
Surr: DNOP	105	69-147		%Rec	1	11/11/2023 2:21:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/14/2023 7:22:22 AM
Surr: BFB	82.3	15-244		%Rec	1	11/14/2023 7:22:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/14/2023 7:22:22 AM
Toluene	ND	0.048		mg/Kg	1	11/14/2023 7:22:22 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/14/2023 7:22:22 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/14/2023 7:22:22 AM
Surr: 4-Bromofluorobenzene	83.0	39.1-146		%Rec	1	11/14/2023 7:22:22 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	290	60		mg/Kg	20	11/13/2023 1:03:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311451

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-58 4'

Project: Prometheus

Collection Date: 11/7/2023 1:25:00 PM

Lab ID: 2311451-006

Matrix: SOIL

Received Date: 11/9/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/11/2023 2:45:25 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/11/2023 2:45:25 PM
Surr: DNOP	101	69-147		%Rec	1	11/11/2023 2:45:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/14/2023 7:45:47 AM
Surr: BFB	81.3	15-244		%Rec	1	11/14/2023 7:45:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/14/2023 7:45:47 AM
Toluene	ND	0.048		mg/Kg	1	11/14/2023 7:45:47 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/14/2023 7:45:47 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/14/2023 7:45:47 AM
Surr: 4-Bromofluorobenzene	83.1	39.1-146		%Rec	1	11/14/2023 7:45:47 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	330	60		mg/Kg	20	11/13/2023 1:15:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311451
Date Reported: 11/17/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-59 4'
Project: Prometheus Collection Date: 11/7/2023 11:00:00 AM
Lab ID: 2311451-007 Matrix: SOIL Received Date: 11/9/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/11/2023 3:09:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/11/2023 3:09:16 PM
Surr: DNOP	101	69-147		%Rec	1	11/11/2023 3:09:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/14/2023 8:09:11 AM
Surr: BFB	84.6	15-244		%Rec	1	11/14/2023 8:09:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/14/2023 8:09:11 AM
Toluene	ND	0.047		mg/Kg	1	11/14/2023 8:09:11 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/14/2023 8:09:11 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/14/2023 8:09:11 AM
Surr: 4-Bromofluorobenzene	85.5	39.1-146		%Rec	1	11/14/2023 8:09:11 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	410	59		mg/Kg	20	11/13/2023 1:28:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311451
Date Reported: 11/17/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-60 4'
Project: Prometheus Collection Date: 11/7/2023 11:00:00 AM
Lab ID: 2311451-008 Matrix: SOIL Received Date: 11/9/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/11/2023 3:33:08 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/11/2023 3:33:08 PM
Surr: DNOP	103	69-147		%Rec	1	11/11/2023 3:33:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/14/2023 8:32:36 AM
Surr: BFB	85.8	15-244		%Rec	1	11/14/2023 8:32:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/14/2023 8:32:36 AM
Toluene	ND	0.046		mg/Kg	1	11/14/2023 8:32:36 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/14/2023 8:32:36 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/14/2023 8:32:36 AM
Surr: 4-Bromofluorobenzene	87.8	39.1-146		%Rec	1	11/14/2023 8:32:36 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	470	60		mg/Kg	20	11/13/2023 1:40:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311451

17-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78743		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 78743		RunNo: 101147						
Prep Date: 11/13/2023		Analysis Date: 11/13/2023		SeqNo: 3715881			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78743		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 78743		RunNo: 101147						
Prep Date: 11/13/2023		Analysis Date: 11/13/2023		SeqNo: 3715882			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2311451
17-Nov-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: MB-78708	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78708	RunNo: 101132								
Prep Date: 11/10/2023	Analysis Date: 11/10/2023	SeqNo: 3714454			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		102	69	147			

Sample ID: LCS-78708	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78708	RunNo: 101132								
Prep Date: 11/10/2023	Analysis Date: 11/10/2023	SeqNo: 3714455			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		101	69	147			

Sample ID: MB-78706	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78706	RunNo: 101132								
Prep Date: 11/10/2023	Analysis Date: 11/11/2023	SeqNo: 3714471			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	69	147			

Sample ID: LCS-78706	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78706	RunNo: 101132								
Prep Date: 11/10/2023	Analysis Date: 11/11/2023	SeqNo: 3714472			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	61.9	130			
Surr: DNOP	4.9		5.000		99.0	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311451
17-Nov-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: lcs-78688	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 78688				RunNo: 101130					
Prep Date: 11/9/2023	Analysis Date: 11/13/2023				SeqNo: 3715350	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.7	70	130			
Surr: BFB	1800		1000		176	15	244			

Sample ID: mb-78688	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 78688				RunNo: 101130					
Prep Date: 11/9/2023	Analysis Date: 11/14/2023				SeqNo: 3715352	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		84.5	15	244			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 12

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311451

17-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-78688	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 78688	RunNo: 101130								
Prep Date: 11/9/2023	Analysis Date: 11/14/2023	SeqNo: 3715395	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.8	70	130			
Toluene	0.93	0.050	1.000	0	92.7	70	130			
Ethylbenzene	0.90	0.050	1.000	0	89.8	70	130			
Xylenes, Total	2.7	0.10	3.000	0	88.8	70	130			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.1	39.1	146			

Sample ID: mb-78688	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 78688	RunNo: 101130								
Prep Date: 11/9/2023	Analysis Date: 11/14/2023	SeqNo: 3715397	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		85.0	39.1	146			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2311451

RcptNo: 1

Received By: Tracy Casarrubias

11/9/2023 7:40:00 AM

Completed By: Tracy Casarrubias

11/9/2023 8:12:15 AM

Reviewed By:

JR 11/9/23

Chain of Custody

1. Is Chain of Custody complete?

Yes ☐No ☒Not Present ☐

2. How was the sample delivered?

CourierLog In

3. Was an attempt made to cool the samples?

Yes ☒No ☐NA ☐

4. Were all samples received at a temperature of >0° C to 6.0°C

Yes ☒No ☐NA ☐

5. Sample(s) in proper container(s)?

Yes ☒No ☐

6. Sufficient sample volume for indicated test(s)?

Yes ☒No ☐

7. Are samples (except VOA and ONG) properly preserved?

Yes ☒No ☐

8. Was preservative added to bottles?

Yes ☐No ☒NA ☐

9. Received at least 1 vial with headspace <1/4" for AQ VOA?

Yes ☐No ☐NA ☒

10. Were any sample containers received broken?

Yes ☐No ☒

11. Does paperwork match bottle labels?

Yes ☒No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody?

Yes ☒No ☐

13. Is it clear what analyses were requested?

Yes ☒No ☐

14. Were all holding times able to be met?

Yes ☒No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

SCM 11/9/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?

Yes ☐No ☐NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

Mailing address, phone number, Email/Fax and time of relinquishment are missing on CO

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Yes	Yogi		



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

November 29, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2311674

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 18 sample(s) on 11/14/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-48 4'

Project: Prometheus

Collection Date: 11/10/2023 1:00:00 PM

Lab ID: 2311674-001

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/16/2023 2:21:26 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/16/2023 2:21:26 AM
Surr: DNOP	92.8	69-147		%Rec	1	11/16/2023 2:21:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/17/2023 12:36:45 AM
Surr: BFB	95.5	15-244		%Rec	1	11/17/2023 12:36:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/17/2023 12:36:45 AM
Toluene	ND	0.048		mg/Kg	1	11/17/2023 12:36:45 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/17/2023 12:36:45 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/17/2023 12:36:45 AM
Surr: 4-Bromofluorobenzene	96.6	39.1-146		%Rec	1	11/17/2023 12:36:45 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1000	59		mg/Kg	20	11/16/2023 7:18:35 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-49 4'

Project: Prometheus

Collection Date: 11/10/2023 9:25:00 AM

Lab ID: 2311674-002

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/16/2023 2:45:38 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/16/2023 2:45:38 AM
Surr: DNOP	89.4	69-147		%Rec	1	11/16/2023 2:45:38 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/17/2023 1:00:24 AM
Surr: BFB	96.2	15-244		%Rec	1	11/17/2023 1:00:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/17/2023 1:00:24 AM
Toluene	ND	0.047		mg/Kg	1	11/17/2023 1:00:24 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/17/2023 1:00:24 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/17/2023 1:00:24 AM
Surr: 4-Bromofluorobenzene	97.8	39.1-146		%Rec	1	11/17/2023 1:00:24 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	320	60		mg/Kg	20	11/16/2023 7:55:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-50 4'

Project: Prometheus

Collection Date: 11/10/2023 9:15:00 AM

Lab ID: 2311674-003

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/16/2023 3:09:55 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/16/2023 3:09:55 AM
Surr: DNOP	96.5	69-147		%Rec	1	11/16/2023 3:09:55 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/17/2023 1:47:30 AM
Surr: BFB	95.8	15-244		%Rec	1	11/17/2023 1:47:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/17/2023 1:47:30 AM
Toluene	ND	0.047		mg/Kg	1	11/17/2023 1:47:30 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/17/2023 1:47:30 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/17/2023 1:47:30 AM
Surr: 4-Bromofluorobenzene	96.9	39.1-146		%Rec	1	11/17/2023 1:47:30 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	510	60		mg/Kg	20	11/16/2023 8:33:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-52 4'

Project: Prometheus

Collection Date: 11/10/2023 9:10:00 AM

Lab ID: 2311674-004

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/16/2023 3:34:07 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/16/2023 3:34:07 AM
Surr: DNOP	91.2	69-147		%Rec	1	11/16/2023 3:34:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/17/2023 2:11:00 AM
Surr: BFB	92.8	15-244		%Rec	1	11/17/2023 2:11:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/17/2023 2:11:00 AM
Toluene	ND	0.047		mg/Kg	1	11/17/2023 2:11:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/17/2023 2:11:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/17/2023 2:11:00 AM
Surr: 4-Bromofluorobenzene	93.5	39.1-146		%Rec	1	11/17/2023 2:11:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	550	60		mg/Kg	20	11/16/2023 8:45:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-15 0-4'

Project: Prometheus

Collection Date: 11/10/2023 2:25:00 PM

Lab ID: 2311674-005

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/16/2023 4:22:28 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/16/2023 4:22:28 AM
Surr: DNOP	95.2	69-147		%Rec	1	11/16/2023 4:22:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/17/2023 2:34:38 AM
Surr: BFB	97.7	15-244		%Rec	1	11/17/2023 2:34:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/17/2023 2:34:38 AM
Toluene	ND	0.050		mg/Kg	1	11/17/2023 2:34:38 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/17/2023 2:34:38 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/17/2023 2:34:38 AM
Surr: 4-Bromofluorobenzene	99.0	39.1-146		%Rec	1	11/17/2023 2:34:38 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	59		mg/Kg	20	11/16/2023 8:57:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311674
Date Reported: 11/29/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-16 0-4'
Project: Prometheus Collection Date: 11/10/2023 2:30:00 PM
Lab ID: 2311674-006 Matrix: SOIL Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/16/2023 4:46:38 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/16/2023 4:46:38 AM
Surr: DNOP	89.0	69-147		%Rec	1	11/16/2023 4:46:38 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/17/2023 2:58:12 AM
Surr: BFB	96.7	15-244		%Rec	1	11/17/2023 2:58:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/17/2023 2:58:12 AM
Toluene	ND	0.049		mg/Kg	1	11/17/2023 2:58:12 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/17/2023 2:58:12 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/17/2023 2:58:12 AM
Surr: 4-Bromofluorobenzene	97.8	39.1-146		%Rec	1	11/17/2023 2:58:12 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	110	60		mg/Kg	20	11/16/2023 9:10:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-17 0-4'

Project: Prometheus

Collection Date: 11/10/2023 2:35:00 PM

Lab ID: 2311674-007

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/16/2023 5:10:50 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/16/2023 5:10:50 AM
Surr: DNOP	90.0	69-147		%Rec	1	11/16/2023 5:10:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/17/2023 3:21:49 AM
Surr: BFB	95.5	15-244		%Rec	1	11/17/2023 3:21:49 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/17/2023 3:21:49 AM
Toluene	ND	0.047		mg/Kg	1	11/17/2023 3:21:49 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/17/2023 3:21:49 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/17/2023 3:21:49 AM
Surr: 4-Bromofluorobenzene	97.1	39.1-146		%Rec	1	11/17/2023 3:21:49 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	87	60		mg/Kg	20	11/16/2023 9:22:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-18 0-4'

Project: Prometheus

Collection Date: 11/10/2023 2:40:00 PM

Lab ID: 2311674-008

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/16/2023 5:35:02 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/16/2023 5:35:02 AM
Surr: DNOP	91.2	69-147		%Rec	1	11/16/2023 5:35:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/17/2023 3:45:22 AM
Surr: BFB	93.2	15-244		%Rec	1	11/17/2023 3:45:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/17/2023 3:45:22 AM
Toluene	ND	0.047		mg/Kg	1	11/17/2023 3:45:22 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/17/2023 3:45:22 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/17/2023 3:45:22 AM
Surr: 4-Bromofluorobenzene	95.1	39.1-146		%Rec	1	11/17/2023 3:45:22 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	380	59		mg/Kg	20	11/16/2023 9:35:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-19 0-4'

Project: Prometheus

Collection Date: 11/10/2023 1:05:00 PM

Lab ID: 2311674-009

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/16/2023 5:59:36 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/16/2023 5:59:36 AM
Surr: DNOP	93.3	69-147		%Rec	1	11/16/2023 5:59:36 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/17/2023 4:08:55 AM
Surr: BFB	94.1	15-244		%Rec	1	11/17/2023 4:08:55 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/17/2023 4:08:55 AM
Toluene	ND	0.050		mg/Kg	1	11/17/2023 4:08:55 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/17/2023 4:08:55 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/17/2023 4:08:55 AM
Surr: 4-Bromofluorobenzene	94.4	39.1-146		%Rec	1	11/17/2023 4:08:55 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	170	60		mg/Kg	20	11/16/2023 9:47:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2311674-010

Client Sample ID: WS23-20 0-4'
Collection Date: 11/10/2023 9:15:00 AM
Received Date: 11/14/2023 7:40:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/16/2023 6:24:06 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/16/2023 6:24:06 AM
Surr: DNOP	93.1	69-147		%Rec	1	11/16/2023 6:24:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/17/2023 4:32:28 AM
Surr: BFB	95.2	15-244		%Rec	1	11/17/2023 4:32:28 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/17/2023 4:32:28 AM
Toluene	ND	0.048		mg/Kg	1	11/17/2023 4:32:28 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/17/2023 4:32:28 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/17/2023 4:32:28 AM
Surr: 4-Bromofluorobenzene	96.9	39.1-146		%Rec	1	11/17/2023 4:32:28 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1200	60		mg/Kg	20	11/16/2023 9:59:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311674
Date Reported: 11/29/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-54 0-4'
Project: Prometheus Collection Date: 11/10/2023 9:20:00 AM
Lab ID: 2311674-011 Matrix: SOIL Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/16/2023 6:48:39 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/16/2023 6:48:39 AM
Surr: DNOP	88.3	69-147		%Rec	1	11/16/2023 6:48:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/17/2023 4:56:00 AM
Surr: BFB	95.3	15-244		%Rec	1	11/17/2023 4:56:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/17/2023 4:56:00 AM
Toluene	ND	0.050		mg/Kg	1	11/17/2023 4:56:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/17/2023 4:56:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/17/2023 4:56:00 AM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	11/17/2023 4:56:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	530	60		mg/Kg	20	11/16/2023 10:12:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-56 0-4'

Project: Prometheus

Collection Date: 11/10/2023 1:00:00 PM

Lab ID: 2311674-012

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/16/2023 7:13:07 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/16/2023 7:13:07 AM
Surr: DNOP	91.0	69-147		%Rec	1	11/16/2023 7:13:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/17/2023 5:19:31 AM
Surr: BFB	98.6	15-244		%Rec	1	11/17/2023 5:19:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/17/2023 5:19:31 AM
Toluene	ND	0.047		mg/Kg	1	11/17/2023 5:19:31 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/17/2023 5:19:31 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/17/2023 5:19:31 AM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	11/17/2023 5:19:31 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	510	60		mg/Kg	20	11/16/2023 10:24:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-57 0-4'

Project: Prometheus

Collection Date: 11/10/2023 1:05:00 PM

Lab ID: 2311674-013

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/16/2023 7:37:40 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/16/2023 7:37:40 AM
Surr: DNOP	90.6	69-147		%Rec	1	11/16/2023 7:37:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/17/2023 6:06:33 AM
Surr: BFB	98.2	15-244		%Rec	1	11/17/2023 6:06:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/17/2023 6:06:33 AM
Toluene	ND	0.046		mg/Kg	1	11/17/2023 6:06:33 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/17/2023 6:06:33 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/17/2023 6:06:33 AM
Surr: 4-Bromofluorobenzene	99.8	39.1-146		%Rec	1	11/17/2023 6:06:33 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	65	60		mg/Kg	20	11/16/2023 11:01:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-58 0-4'

Project: Prometheus

Collection Date: 11/10/2023 1:10:00 PM

Lab ID: 2311674-014

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/16/2023 8:02:04 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/16/2023 8:02:04 AM
Surr: DNOP	89.7	69-147		%Rec	1	11/16/2023 8:02:04 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/17/2023 6:30:04 AM
Surr: BFB	96.5	15-244		%Rec	1	11/17/2023 6:30:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/17/2023 6:30:04 AM
Toluene	ND	0.047		mg/Kg	1	11/17/2023 6:30:04 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/17/2023 6:30:04 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/17/2023 6:30:04 AM
Surr: 4-Bromofluorobenzene	97.2	39.1-146		%Rec	1	11/17/2023 6:30:04 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/16/2023 11:14:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-60 0-4'

Project: Prometheus

Collection Date: 11/10/2023 2:25:00 PM

Lab ID: 2311674-015

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/16/2023 8:26:35 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/16/2023 8:26:35 AM
Surr: DNOP	95.4	69-147		%Rec	1	11/16/2023 8:26:35 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/17/2023 6:53:35 AM
Surr: BFB	96.3	15-244		%Rec	1	11/17/2023 6:53:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/17/2023 6:53:35 AM
Toluene	ND	0.047		mg/Kg	1	11/17/2023 6:53:35 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/17/2023 6:53:35 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/17/2023 6:53:35 AM
Surr: 4-Bromofluorobenzene	98.3	39.1-146		%Rec	1	11/17/2023 6:53:35 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	130	60		mg/Kg	20	11/16/2023 11:26:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-77 0-4'

Project: Prometheus

Collection Date: 11/10/2023 11:00:00 AM

Lab ID: 2311674-016

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/16/2023 7:22:51 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/16/2023 7:22:51 PM
Surr: DNOP	95.4	69-147		%Rec	1	11/16/2023 7:22:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/17/2023 2:43:00 PM
Surr: BFB	103	15-244		%Rec	1	11/17/2023 2:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/17/2023 2:43:00 PM
Toluene	ND	0.048		mg/Kg	1	11/17/2023 2:43:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/17/2023 2:43:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/17/2023 2:43:00 PM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	11/17/2023 2:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	70	60		mg/Kg	20	11/16/2023 11:39:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-79 0-4'

Project: Prometheus

Collection Date: 11/10/2023 11:00:00 AM

Lab ID: 2311674-017

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/16/2023 7:33:31 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/16/2023 7:33:31 PM
Surr: DNOP	121	69-147		%Rec	1	11/16/2023 7:33:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/17/2023 3:04:00 PM
Surr: BFB	105	15-244		%Rec	1	11/17/2023 3:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	11/17/2023 3:04:00 PM
Toluene	ND	0.049		mg/Kg	1	11/17/2023 3:04:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/17/2023 3:04:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/17/2023 3:04:00 PM
Surr: 4-Bromofluorobenzene	99.3	39.1-146		%Rec	1	11/17/2023 3:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1000	60		mg/Kg	20	11/16/2023 11:51:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311674

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-80 0-4'

Project: Prometheus

Collection Date: 11/10/2023 11:40:00 AM

Lab ID: 2311674-018

Matrix: SOIL

Received Date: 11/14/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/16/2023 7:44:11 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/16/2023 7:44:11 PM
Surr: DNOP	133	69-147		%Rec	1	11/16/2023 7:44:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/17/2023 3:26:00 PM
Surr: BFB	104	15-244		%Rec	1	11/17/2023 3:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/17/2023 3:26:00 PM
Toluene	ND	0.048		mg/Kg	1	11/17/2023 3:26:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/17/2023 3:26:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/17/2023 3:26:00 PM
Surr: 4-Bromofluorobenzene	99.3	39.1-146		%Rec	1	11/17/2023 3:26:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	210	60		mg/Kg	20	11/17/2023 12:04:01 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311674

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78844	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78844	RunNo: 101241								
Prep Date: 11/16/2023	Analysis Date: 11/16/2023	SeqNo: 3723320	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78844	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 78844	RunNo: 101241								
Prep Date: 11/16/2023	Analysis Date: 11/16/2023	SeqNo: 3723321	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311674

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78785	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78785	RunNo: 101178								
Prep Date: 11/14/2023	Analysis Date: 11/15/2023	SeqNo: 3720894 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	69	147			

Sample ID: LCS-78785	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78785	RunNo: 101178								
Prep Date: 11/14/2023	Analysis Date: 11/15/2023	SeqNo: 3720895 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	61.9	130			
Surr: DNOP	4.7		5.000		94.7	69	147			

Sample ID: 2311674-015AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-60 0-4'	Batch ID: 78785	RunNo: 101178								
Prep Date: 11/14/2023	Analysis Date: 11/16/2023	SeqNo: 3720919 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.7	48.69	0	97.3	54.2	135			
Surr: DNOP	4.0		4.869		82.7	69	147			

Sample ID: 2311674-015AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-60 0-4'	Batch ID: 78785	RunNo: 101178								
Prep Date: 11/14/2023	Analysis Date: 11/16/2023	SeqNo: 3720920 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.6	47.89	0	99.7	54.2	135	0.774	29.2	
Surr: DNOP	4.1		4.789		84.6	69	147	0	0	

Sample ID: LCS-78823	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78823	RunNo: 101250								
Prep Date: 11/15/2023	Analysis Date: 11/16/2023	SeqNo: 3722305 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	61.9	130			
Surr: DNOP	4.7		5.000		93.8	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311674

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78823	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78823	RunNo: 101250								
Prep Date: 11/15/2023	Analysis Date: 11/16/2023	SeqNo: 3722307		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311674

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: ics-78779	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78779		RunNo: 101227							
Prep Date: 11/14/2023	Analysis Date: 11/16/2023		SeqNo: 3722433		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.4	70	130			
Surr: BFB	2000		1000		196	15	244			

Sample ID: mb-78779	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78779		RunNo: 101227							
Prep Date: 11/14/2023	Analysis Date: 11/16/2023		SeqNo: 3722434		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.4	15	244			

Sample ID: ics-78810	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78810		RunNo: 101297							
Prep Date: 11/15/2023	Analysis Date: 11/17/2023		SeqNo: 3725421		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.4	70	130			
Surr: BFB	2200		1000		219	15	244			

Sample ID: mb-78810	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78810		RunNo: 101297							
Prep Date: 11/15/2023	Analysis Date: 11/17/2023		SeqNo: 3725422		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	15	244			

Sample ID: 2311674-016ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS23-77 0-4'	Batch ID: 78810		RunNo: 101297							
Prep Date: 11/15/2023	Analysis Date: 11/17/2023		SeqNo: 3725426		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.7	23.74	0	100	70	130			
Surr: BFB	2100		949.7		225	15	244			

Sample ID: 2311674-016amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS23-77 0-4'	Batch ID: 78810		RunNo: 101297							
Prep Date: 11/15/2023	Analysis Date: 11/17/2023		SeqNo: 3725427		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.7	23.74	0	100	70	130			
Surr: BFB	2100		949.7		225	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311674

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2311674-016amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: WS23-77 0-4'		Batch ID: 78810			RunNo: 101297					
Prep Date: 11/15/2023		Analysis Date: 11/17/2023			SeqNo: 3725427		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.72	0	97.4	70	130	3.21	20	
Surr: BFB	2200		948.8		235	15	244	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311674

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-78779	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78779		RunNo: 101227							
Prep Date: 11/14/2023	Analysis Date: 11/16/2023		SeqNo: 3722469		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.5	70	130			
Toluene	0.96	0.050	1.000	0	96.4	70	130			
Ethylbenzene	0.95	0.050	1.000	0	94.8	70	130			
Xylenes, Total	2.8	0.10	3.000	0	94.5	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: mb-78779	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78779		RunNo: 101227							
Prep Date: 11/14/2023	Analysis Date: 11/16/2023		SeqNo: 3722470		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: lcs-78810	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78810		RunNo: 101297							
Prep Date: 11/15/2023	Analysis Date: 11/17/2023		SeqNo: 3725929		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.8	70	130			
Toluene	0.93	0.050	1.000	0	93.4	70	130			
Ethylbenzene	0.95	0.050	1.000	0	94.7	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.9	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	39.1	146			

Sample ID: mb-78810	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78810		RunNo: 101297							
Prep Date: 11/15/2023	Analysis Date: 11/17/2023		SeqNo: 3725930		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311674
29-Nov-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: 2311674-017ams		SampType: MS		TestCode: EPA Method 8021B: Volatiles						
Client ID: WS23-79 0-4'		Batch ID: 78810		RunNo: 101297						
Prep Date: 11/15/2023		Analysis Date: 11/17/2023		SeqNo: 3725934		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9785	0	93.0	70	130			
Toluene	0.92	0.049	0.9785	0	94.3	70	130			
Ethylbenzene	0.96	0.049	0.9785	0	97.6	70	130			
Xylenes, Total	2.8	0.098	2.935	0	97.0	70	130			
Surr: 4-Bromofluorobenzene	1.0		0.9785		104	39.1	146			

Sample ID: 2311674-017amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: WS23-79 0-4'		Batch ID: 78810		RunNo: 101297						
Prep Date: 11/15/2023		Analysis Date: 11/17/2023		SeqNo: 3725935		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9901	0	88.8	70	130	3.40	20	
Toluene	0.89	0.050	0.9901	0	90.0	70	130	3.39	20	
Ethylbenzene	0.92	0.050	0.9901	0	93.1	70	130	3.57	20	
Xylenes, Total	2.8	0.099	2.970	0	92.7	70	130	3.32	20	
Surr: 4-Bromofluorobenzene	1.0		0.9901		104	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 25 of 25

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2311674

RcptNo: 1

Received By: Juan Rojas

11/14/2023 7:40:00 AM

Completed By: Tracy Casarrubias

11/14/2023 8:08:55 AM

Reviewed By:

72 11/14/23

Juan Rojas

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

SCM 11/14/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions: Mailing address, phone number and Email/Fax are missing on COC- TMC 11/14/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good	Yes	Morty		

Chain-of-Custody Record

Client: Vertex

Mailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 72 hr

Project Name:
Prometheus

Project #:
23E-03329

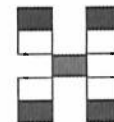
Project Manager:
Michael Moffitt

Sampler: SPC

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (Including CF): 6.8-6.1 = 0.7 (°C)

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/10/23	1300	Soil	BS23-48 4'	4oz jar	ice	001	✓	✓					✓			
	0925		BS23-49 4'			002										
	0915		BS23-50 4'			003										
	0910		BS23-52 4'			004										
	1425		WS23-15 0-4'			005										
	1430		WS23-16 0-4'			006										
	1435		WS23-17 0-4'			007										
	1440		WS23-18 0-4'			008										
	1305		WS23-19 0-4'			009										
	0915		WS23-20 0-4'			010										
	0920		WS23-54 0-4'			011										
	1300		WS23-56 0-4'			012										

Received by: Chunin Via: 11/13/23 Date: 11/13/23 Time: 1030

Relinquished by: Sally Carttar Date: 11/11/23 Time: 1130

Received by: Chunin Via: 10/14/23 Date: 10/14/23 Time: 740

Relinquished by: Chunin Date: 11/13/23 Time: 1030

Remarks: Ace Fluids page 1/2
cc mmoffitt@vertex.ca, scarttar@vertex.ca for final report

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Vertex

Mailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 72 hour

Project Name:

Prometheus

Project #:	
------------	--

23E-03329

Project Manager:

Michael Moffitt

Sampler: SPC

On Ice: ☒ Yes ☐ No

of Coolers: 1 mostly

Cooler Temp (including CF): $4.8 - 0.1 = 0.7$ ($^{\circ}\text{C}$)Container
Type and #Preservative
Type

HEAL No.
311674

Date	Time	Matrix	Sample Name
------	------	--------	-------------

11/10/23	1305	Soil	WS23-57	0-4'
----------	------	------	---------	------

1	1310	1	WS23-58	0-4'
---	------	---	---------	------


1425	WS23-60	0-4'
------	---------	------

1100	WS23-77	0-4'
------	---------	------

1100	WS23-79 0-4'
------	--------------

	1140	1	WS23-80	0-4
--	------	---	---------	-----

Date:	Time:	Relinquished by:
11/11/23	1130	Jalmy Carter

Received by:	Via:	Date	Time
		11/13/13	1030

Remarks: Ace Fluids page 2/2
cc mmoffitt@vertex.ca, scarftar@vertex.ca for final report

Date: 11/23	Time: 1900	Relinquished by: [Signature]
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Received by: Via: Date Time
courier 11/14/23 7:40



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

November 29, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2311735

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 8 sample(s) on 11/15/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311735

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-81 0-4'

Project: Prometheus

Collection Date: 11/13/2023 1:05:00 PM

Lab ID: 2311735-001

Matrix: SOIL

Received Date: 11/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/16/2023 7:54:49 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/16/2023 7:54:49 PM
Surr: DNOP	93.3	69-147		%Rec	1	11/16/2023 7:54:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/17/2023 5:15:00 PM
Surr: BFB	114	15-244		%Rec	1	11/17/2023 5:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/17/2023 5:15:00 PM
Toluene	ND	0.047		mg/Kg	1	11/17/2023 5:15:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/17/2023 5:15:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/17/2023 5:15:00 PM
Surr: 4-Bromofluorobenzene	105	39.1-146		%Rec	1	11/17/2023 5:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	110	60		mg/Kg	20	11/17/2023 6:18:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311735

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-82 0-4'

Project: Prometheus

Collection Date: 11/13/2023 1:10:00 PM

Lab ID: 2311735-002

Matrix: SOIL

Received Date: 11/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/16/2023 8:05:27 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/16/2023 8:05:27 PM
Surr: DNOP	91.0	69-147		%Rec	1	11/16/2023 8:05:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/17/2023 5:38:00 PM
Surr: BFB	110	15-244		%Rec	1	11/17/2023 5:38:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	11/17/2023 5:38:00 PM
Toluene	ND	0.047		mg/Kg	1	11/17/2023 5:38:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/17/2023 5:38:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	11/17/2023 5:38:00 PM
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	11/17/2023 5:38:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	11/17/2023 6:33:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 2 of 12

Analytical Report

Lab Order 2311735

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-41 4'

Project: Prometheus

Collection Date: 11/13/2023 2:25:00 PM

Lab ID: 2311735-003

Matrix: SOIL

Received Date: 11/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/16/2023 8:16:04 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/16/2023 8:16:04 PM
Surr: DNOP	91.2	69-147		%Rec	1	11/16/2023 8:16:04 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/17/2023 6:00:00 PM
Surr: BFB	113	15-244		%Rec	1	11/17/2023 6:00:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/17/2023 6:00:00 PM
Toluene	ND	0.048		mg/Kg	1	11/17/2023 6:00:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/17/2023 6:00:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/17/2023 6:00:00 PM
Surr: 4-Bromofluorobenzene	108	39.1-146		%Rec	1	11/17/2023 6:00:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	410	60		mg/Kg	20	11/17/2023 6:48:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311735

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-42 4'

Project: Prometheus

Collection Date: 11/13/2023 2:20:00 PM

Lab ID: 2311735-004

Matrix: SOIL

Received Date: 11/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/16/2023 8:26:41 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/16/2023 8:26:41 PM
Surr: DNOP	93.6	69-147		%Rec	1	11/16/2023 8:26:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/17/2023 6:22:00 PM
Surr: BFB	117	15-244		%Rec	1	11/17/2023 6:22:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/17/2023 6:22:00 PM
Toluene	ND	0.049		mg/Kg	1	11/17/2023 6:22:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/17/2023 6:22:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/17/2023 6:22:00 PM
Surr: 4-Bromofluorobenzene	112	39.1-146		%Rec	1	11/17/2023 6:22:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	300	60		mg/Kg	20	11/17/2023 7:18:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311735

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-45 4'

Project: Prometheus

Collection Date: 11/13/2023 2:20:00 PM

Lab ID: 2311735-005

Matrix: SOIL

Received Date: 11/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/16/2023 8:37:17 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/16/2023 8:37:17 PM
Surr: DNOP	90.8	69-147		%Rec	1	11/16/2023 8:37:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/17/2023 6:44:00 PM
Surr: BFB	114	15-244		%Rec	1	11/17/2023 6:44:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	11/17/2023 6:44:00 PM
Toluene	ND	0.047		mg/Kg	1	11/17/2023 6:44:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/17/2023 6:44:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/17/2023 6:44:00 PM
Surr: 4-Bromofluorobenzene	112	39.1-146		%Rec	1	11/17/2023 6:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	490	61		mg/Kg	20	11/17/2023 7:31:07 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311735

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-46 4'

Project: Prometheus

Collection Date: 11/13/2023 2:15:00 PM

Lab ID: 2311735-006

Matrix: SOIL

Received Date: 11/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/16/2023 8:47:56 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/16/2023 8:47:56 PM
Surr: DNOP	93.1	69-147		%Rec	1	11/16/2023 8:47:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/17/2023 7:28:00 PM
Surr: BFB	111	15-244		%Rec	1	11/17/2023 7:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/17/2023 7:28:00 PM
Toluene	ND	0.049		mg/Kg	1	11/17/2023 7:28:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/17/2023 7:28:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/17/2023 7:28:00 PM
Surr: 4-Bromofluorobenzene	108	39.1-146		%Rec	1	11/17/2023 7:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	720	60		mg/Kg	20	11/17/2023 8:08:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311735

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-47 4'

Project: Prometheus

Collection Date: 11/13/2023 2:15:00 PM

Lab ID: 2311735-007

Matrix: SOIL

Received Date: 11/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/16/2023 8:58:33 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/16/2023 8:58:33 PM
Surr: DNOP	89.7	69-147		%Rec	1	11/16/2023 8:58:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/17/2023 7:51:00 PM
Surr: BFB	112	15-244		%Rec	1	11/17/2023 7:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	11/17/2023 7:51:00 PM
Toluene	ND	0.049		mg/Kg	1	11/17/2023 7:51:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/17/2023 7:51:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/17/2023 7:51:00 PM
Surr: 4-Bromofluorobenzene	106	39.1-146		%Rec	1	11/17/2023 7:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	410	60		mg/Kg	20	11/17/2023 8:20:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311735

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-51 4'

Project: Prometheus

Collection Date: 11/13/2023 12:50:00 PM

Lab ID: 2311735-008

Matrix: SOIL

Received Date: 11/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/16/2023 9:09:09 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/16/2023 9:09:09 PM
Surr: DNOP	105	69-147		%Rec	1	11/16/2023 9:09:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/17/2023 8:13:00 PM
Surr: BFB	110	15-244		%Rec	1	11/17/2023 8:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/17/2023 8:13:00 PM
Toluene	ND	0.047		mg/Kg	1	11/17/2023 8:13:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/17/2023 8:13:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/17/2023 8:13:00 PM
Surr: 4-Bromofluorobenzene	105	39.1-146		%Rec	1	11/17/2023 8:13:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	390	60		mg/Kg	20	11/17/2023 8:33:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311735

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78867	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78867	RunNo: 101284								
Prep Date: 11/17/2023	Analysis Date: 11/17/2023	SeqNo: 3724727		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78867	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 78867	RunNo: 101284								
Prep Date: 11/17/2023	Analysis Date: 11/17/2023	SeqNo: 3724728		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

Sample ID: MB-78869	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78869	RunNo: 101286								
Prep Date: 11/17/2023	Analysis Date: 11/17/2023	SeqNo: 3724875		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78869	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 78869	RunNo: 101286								
Prep Date: 11/17/2023	Analysis Date: 11/17/2023	SeqNo: 3724876		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311735

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-78823	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78823	RunNo: 101250								
Prep Date: 11/15/2023	Analysis Date: 11/16/2023	SeqNo: 3722305	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	61.9	130			
Surr: DNOP	4.7		5.000		93.8	69	147			

Sample ID: MB-78823	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78823	RunNo: 101250								
Prep Date: 11/15/2023	Analysis Date: 11/16/2023	SeqNo: 3722307	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	69	147			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311735

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78810	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78810		RunNo: 101297							
Prep Date: 11/15/2023	Analysis Date: 11/17/2023		SeqNo: 3725421		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.4	70	130			
Surr: BFB	2200		1000		219	15	244			

Sample ID: mb-78810	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78810		RunNo: 101297							
Prep Date: 11/15/2023	Analysis Date: 11/17/2023		SeqNo: 3725422		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	15	244			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311735

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78810	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 78810			RunNo: 101297						
Prep Date: 11/15/2023	Analysis Date: 11/17/2023			SeqNo: 3725929	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.8	70	130			
Toluene	0.93	0.050	1.000	0	93.4	70	130			
Ethylbenzene	0.95	0.050	1.000	0	94.7	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.9	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	39.1	146			

Sample ID: mb-78810	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 78810			RunNo: 101297						
Prep Date: 11/15/2023	Analysis Date: 11/17/2023			SeqNo: 3725930	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	39.1	146			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit



Environment Testin

Eurofins Environment Testing South
Central, LLC

4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2311735

RcptNo: 1

Received By: Juan Rojas

11/15/2023 7:30:00 AM

Completed By: Tracy Casarrubias

11/15/2023 7:36:18 AM

Reviewed By:

11/15/23

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

11/15/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions: Mailing address, phone number and Email/Fax are missing on COC- TMC 11/15/23

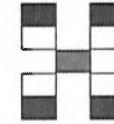
16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes	Morty		

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/14/23	0715	Sally Cortan	Accompanying		11/14/23	0715
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/14/23	1900	Accompanying	Accompanying		11/15/23	7:30

1.5/23



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks:

Ace Fluids

cc mmoffitt@vertex.ca, scarttar@vertex.ca final report



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

November 29, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2311922

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 7 sample(s) on 11/17/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311922
Date Reported: 11/29/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-110 4'
Project: Prometheus Collection Date: 11/14/2023 11:25:00 AM
Lab ID: 2311922-001 Matrix: SOIL Received Date: 11/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/20/2023 12:47:59 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/20/2023 12:47:59 PM
Surr: DNOP	104	69-147		%Rec	1	11/20/2023 12:47:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/21/2023 11:27:00 AM
Surr: BFB	101	15-244		%Rec	1	11/21/2023 11:27:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/21/2023 11:27:00 AM
Toluene	ND	0.048		mg/Kg	1	11/21/2023 11:27:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/21/2023 11:27:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/21/2023 11:27:00 AM
Surr: 4-Bromofluorobenzene	97.6	39.1-146		%Rec	1	11/21/2023 11:27:00 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1100	60		mg/Kg	20	11/20/2023 6:28:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311922

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-111 4'

Project: Prometheus

Collection Date: 11/14/2023 11:40:00 AM

Lab ID: 2311922-002

Matrix: SOIL

Received Date: 11/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/20/2023 1:11:41 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/20/2023 1:11:41 PM
Surr: DNOP	107	69-147		%Rec	1	11/20/2023 1:11:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/21/2023 12:32:00 PM
Surr: BFB	107	15-244		%Rec	1	11/21/2023 12:32:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/21/2023 12:32:00 PM
Toluene	ND	0.048		mg/Kg	1	11/21/2023 12:32:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/21/2023 12:32:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/21/2023 12:32:00 PM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	11/21/2023 12:32:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	180	60		mg/Kg	20	11/20/2023 3:55:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311922

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-83 4'

Project: Prometheus

Collection Date: 11/14/2023 11:05:00 AM

Lab ID: 2311922-003

Matrix: SOIL

Received Date: 11/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/20/2023 4:44:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/20/2023 4:44:35 PM
Surr: DNOP	103	69-147		%Rec	1	11/20/2023 4:44:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/21/2023 1:37:00 PM
Surr: BFB	97.8	15-244		%Rec	1	11/21/2023 1:37:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	11/21/2023 1:37:00 PM
Toluene	ND	0.047		mg/Kg	1	11/21/2023 1:37:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/21/2023 1:37:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/21/2023 1:37:00 PM
Surr: 4-Bromofluorobenzene	93.2	39.1-146		%Rec	1	11/21/2023 1:37:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	600	60		mg/Kg	20	11/20/2023 4:07:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311922

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-84 4'

Project: Prometheus

Collection Date: 11/14/2023 11:20:00 AM

Lab ID: 2311922-004

Matrix: SOIL

Received Date: 11/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/20/2023 5:08:08 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/20/2023 5:08:08 PM
Surr: DNOP	96.3	69-147		%Rec	1	11/20/2023 5:08:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/21/2023 1:59:00 PM
Surr: BFB	97.9	15-244		%Rec	1	11/21/2023 1:59:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/21/2023 1:59:00 PM
Toluene	ND	0.047		mg/Kg	1	11/21/2023 1:59:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/21/2023 1:59:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/21/2023 1:59:00 PM
Surr: 4-Bromofluorobenzene	95.2	39.1-146		%Rec	1	11/21/2023 1:59:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	230	60		mg/Kg	20	11/20/2023 4:20:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311922

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-85 4'

Project: Prometheus

Collection Date: 11/14/2023 11:45:00 AM

Lab ID: 2311922-005

Matrix: SOIL

Received Date: 11/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/20/2023 5:31:38 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/20/2023 5:31:38 PM
Surr: DNOP	97.3	69-147		%Rec	1	11/20/2023 5:31:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/21/2023 2:20:00 PM
Surr: BFB	100	15-244		%Rec	1	11/21/2023 2:20:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/21/2023 2:20:00 PM
Toluene	ND	0.048		mg/Kg	1	11/21/2023 2:20:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/21/2023 2:20:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/21/2023 2:20:00 PM
Surr: 4-Bromofluorobenzene	93.7	39.1-146		%Rec	1	11/21/2023 2:20:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	120	60		mg/Kg	20	11/20/2023 4:32:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311922

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-86 4'

Project: Prometheus

Collection Date: 11/14/2023 11:50:00 AM

Lab ID: 2311922-006

Matrix: SOIL

Received Date: 11/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/20/2023 5:55:10 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/20/2023 5:55:10 PM
Surr: DNOP	97.0	69-147		%Rec	1	11/20/2023 5:55:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/21/2023 2:42:00 PM
Surr: BFB	100	15-244		%Rec	1	11/21/2023 2:42:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/21/2023 2:42:00 PM
Toluene	ND	0.047		mg/Kg	1	11/21/2023 2:42:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/21/2023 2:42:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/21/2023 2:42:00 PM
Surr: 4-Bromofluorobenzene	94.0	39.1-146		%Rec	1	11/21/2023 2:42:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	210	60		mg/Kg	20	11/20/2023 4:44:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311922

Date Reported: 11/29/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-87 4'

Project: Prometheus

Collection Date: 11/14/2023 11:55:00 AM

Lab ID: 2311922-007

Matrix: SOIL

Received Date: 11/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/20/2023 6:18:41 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/20/2023 6:18:41 PM
Surr: DNOP	98.4	69-147		%Rec	1	11/20/2023 6:18:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/21/2023 3:04:00 PM
Surr: BFB	106	15-244		%Rec	1	11/21/2023 3:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/21/2023 3:04:00 PM
Toluene	ND	0.049		mg/Kg	1	11/21/2023 3:04:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/21/2023 3:04:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/21/2023 3:04:00 PM
Surr: 4-Bromofluorobenzene	98.5	39.1-146		%Rec	1	11/21/2023 3:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	240	60		mg/Kg	20	11/20/2023 4:57:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311922

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-78901	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 78901	RunNo: 101327
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3727253 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-78901	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 78901	RunNo: 101327
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3727254 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 95.9 90 110

Sample ID: MB-78898	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 78898	RunNo: 101333
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3727442 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-78898	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 78898	RunNo: 101333
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3727443 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 91.1 90 110

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311922

29-Nov-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: MB-78885	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78885	RunNo: 101343								
Prep Date: 11/17/2023	Analysis Date: 11/20/2023	SeqNo: 3727650		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	69	147			

Sample ID: LCS-78885	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78885	RunNo: 101343								
Prep Date: 11/17/2023	Analysis Date: 11/20/2023	SeqNo: 3727651		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	61.9	130			
Surr: DNOP	4.7		5.000		94.8	69	147			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311922

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78878	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78878		RunNo: 101392							
Prep Date: 11/17/2023	Analysis Date: 11/21/2023		SeqNo: 3730403		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	70	130			
Surr: BFB	2200		1000		224	15	244			

Sample ID: mb-78878	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78878		RunNo: 101392							
Prep Date: 11/17/2023	Analysis Date: 11/21/2023		SeqNo: 3730404		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	15	244			

Sample ID: 2311922-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BS23-110 4'	Batch ID: 78878		RunNo: 101392							
Prep Date: 11/17/2023	Analysis Date: 11/21/2023		SeqNo: 3730406		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	23.90	0	94.8	70	130			
Surr: BFB	2000		956.0		212	15	244			

Sample ID: 2311922-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BS23-110 4'	Batch ID: 78878		RunNo: 101392							
Prep Date: 11/17/2023	Analysis Date: 11/21/2023		SeqNo: 3730407		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.04	0	93.4	70	130	0.998	20	
Surr: BFB	2100		961.5		220	15	244	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311922

29-Nov-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-78878	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 78878	RunNo: 101392								
Prep Date: 11/17/2023	Analysis Date: 11/21/2023	SeqNo: 3730446			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.1	70	130			
Toluene	0.98	0.050	1.000	0	97.8	70	130			
Ethylbenzene	0.98	0.050	1.000	0	98.2	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.5	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	39.1	146			

Sample ID: mb-78878	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 78878	RunNo: 101392								
Prep Date: 11/17/2023	Analysis Date: 11/21/2023	SeqNo: 3730447			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	39.1	146			

Sample ID: 2311922-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-111 4'	Batch ID: 78878	RunNo: 101392								
Prep Date: 11/17/2023	Analysis Date: 11/21/2023	SeqNo: 3730450			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9551	0	92.6	70	130			
Toluene	0.88	0.048	0.9551	0	92.1	70	130			
Ethylbenzene	0.91	0.048	0.9551	0	95.0	70	130			
Xylenes, Total	2.7	0.096	2.865	0	94.2	70	130			
Surr: 4-Bromofluorobenzene	0.91		0.9551		95.4	39.1	146			

Sample ID: 2311922-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-111 4'	Batch ID: 78878	RunNo: 101392								
Prep Date: 11/17/2023	Analysis Date: 11/21/2023	SeqNo: 3730451			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9542	0	91.4	70	130	1.42	20	
Toluene	0.87	0.048	0.9542	0	91.0	70	130	1.30	20	
Ethylbenzene	0.88	0.048	0.9542	0	92.6	70	130	2.68	20	
Xylenes, Total	2.6	0.095	2.863	0	92.2	70	130	2.20	20	
Surr: 4-Bromofluorobenzene	0.89		0.9542		93.6	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Sample Log-In Check List

Client Name: Vertex Resources Work Order Number: 2311922 RcptNo: 1

Received By: Tracy Casarrubias 11/17/2023 7:45:00 AM

Completed By: Tracy Casarrubias 11/17/2023 8:16:48 AM

Reviewed By: *TC 11/17/23*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☒ # of preserved bottles checked for pH: *11/17/23*
(<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by: *SCM 11/17/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☒ No ☐ NA ☒ *11/17/23*

Person Notified: *Enn C.* Date: *11/17/23*

By Whom: *Tracy Casarrubias* Via: ☐ eMail ☒ Phone ☐ Fax ☐ In Person

Regarding: *Name discrepancy*

Client Instructions: *Mailing address, phone number, and Email/Fax are missing on COC- TMC 11/17/23*

16. Additional remarks: *Moving forward with COC per E.C. - TMC 11/17/23*

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes	Yogi		



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

December 08, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2312011

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 24 sample(s) on 12/1/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-25 0-4'

Project: Prometheus

Collection Date: 11/29/2023 10:15:00 AM

Lab ID: 2312011-001

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/4/2023 1:06:24 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/4/2023 1:06:24 PM
Surr: DNOP	90.8	69-147		%Rec	1	12/4/2023 1:06:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/4/2023 2:24:30 PM
Surr: BFB	88.4	15-244		%Rec	1	12/4/2023 2:24:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	12/4/2023 2:24:30 PM
Toluene	ND	0.046		mg/Kg	1	12/4/2023 2:24:30 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/4/2023 2:24:30 PM
Xylenes, Total	ND	0.093		mg/Kg	1	12/4/2023 2:24:30 PM
Surr: 4-Bromofluorobenzene	92.5	39.1-146		%Rec	1	12/4/2023 2:24:30 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	240	60		mg/Kg	20	12/5/2023 1:40:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-109 0-4'

Project: Prometheus

Collection Date: 11/29/2023 10:00:00 AM

Lab ID: 2312011-002

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/4/2023 1:16:59 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/4/2023 1:16:59 PM
Surr: DNOP	88.1	69-147		%Rec	1	12/4/2023 1:16:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/4/2023 2:48:03 PM
Surr: BFB	90.1	15-244		%Rec	1	12/4/2023 2:48:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	12/4/2023 2:48:03 PM
Toluene	ND	0.046		mg/Kg	1	12/4/2023 2:48:03 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/4/2023 2:48:03 PM
Xylenes, Total	ND	0.093		mg/Kg	1	12/4/2023 2:48:03 PM
Surr: 4-Bromofluorobenzene	94.7	39.1-146		%Rec	1	12/4/2023 2:48:03 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	97	60		mg/Kg	20	12/5/2023 1:56:07 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-110 0-4'

Project: Prometheus

Collection Date: 11/29/2023 10:05:00 AM

Lab ID: 2312011-003

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/4/2023 1:27:37 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/4/2023 1:27:37 PM
Surr: DNOP	94.4	69-147		%Rec	1	12/4/2023 1:27:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/4/2023 3:11:33 PM
Surr: BFB	92.2	15-244		%Rec	1	12/4/2023 3:11:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/4/2023 3:11:33 PM
Toluene	ND	0.048		mg/Kg	1	12/4/2023 3:11:33 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/4/2023 3:11:33 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/4/2023 3:11:33 PM
Surr: 4-Bromofluorobenzene	96.8	39.1-146		%Rec	1	12/4/2023 3:11:33 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	65	60		mg/Kg	20	12/5/2023 2:11:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-111 0-4'

Project: Prometheus

Collection Date: 11/29/2023 10:10:00 AM

Lab ID: 2312011-004

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/4/2023 1:38:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/4/2023 1:38:16 PM
Surr: DNOP	89.7	69-147		%Rec	1	12/4/2023 1:38:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/4/2023 3:35:03 PM
Surr: BFB	90.5	15-244		%Rec	1	12/4/2023 3:35:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/4/2023 3:35:03 PM
Toluene	ND	0.049		mg/Kg	1	12/4/2023 3:35:03 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/4/2023 3:35:03 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/4/2023 3:35:03 PM
Surr: 4-Bromofluorobenzene	95.1	39.1-146		%Rec	1	12/4/2023 3:35:03 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	12/5/2023 2:26:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-112 0-4'

Project: Prometheus

Collection Date: 11/29/2023 10:20:00 AM

Lab ID: 2312011-005

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/4/2023 1:48:55 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/4/2023 1:48:55 PM
Surr: DNOP	89.1	69-147		%Rec	1	12/4/2023 1:48:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/4/2023 3:58:33 PM
Surr: BFB	91.9	15-244		%Rec	1	12/4/2023 3:58:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/4/2023 3:58:33 PM
Toluene	ND	0.047		mg/Kg	1	12/4/2023 3:58:33 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/4/2023 3:58:33 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/4/2023 3:58:33 PM
Surr: 4-Bromofluorobenzene	95.8	39.1-146		%Rec	1	12/4/2023 3:58:33 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	64	60		mg/Kg	20	12/5/2023 2:41:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-113 0-4'

Project: Prometheus

Collection Date: 11/29/2023 10:25:00 AM

Lab ID: 2312011-006

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/4/2023 1:59:36 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/4/2023 1:59:36 PM
Surr: DNOP	91.4	69-147		%Rec	1	12/4/2023 1:59:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/4/2023 4:45:32 PM
Surr: BFB	90.6	15-244		%Rec	1	12/4/2023 4:45:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	12/4/2023 4:45:32 PM
Toluene	ND	0.047		mg/Kg	1	12/4/2023 4:45:32 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/4/2023 4:45:32 PM
Xylenes, Total	ND	0.093		mg/Kg	1	12/4/2023 4:45:32 PM
Surr: 4-Bromofluorobenzene	94.5	39.1-146		%Rec	1	12/4/2023 4:45:32 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	12/5/2023 3:27:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-114 0-4'

Project: Prometheus

Collection Date: 11/29/2023 10:30:00 AM

Lab ID: 2312011-007

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/4/2023 2:10:16 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/4/2023 2:10:16 PM
Surr: DNOP	90.3	69-147		%Rec	1	12/4/2023 2:10:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/4/2023 5:09:01 PM
Surr: BFB	90.3	15-244		%Rec	1	12/4/2023 5:09:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/4/2023 5:09:01 PM
Toluene	ND	0.047		mg/Kg	1	12/4/2023 5:09:01 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/4/2023 5:09:01 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/4/2023 5:09:01 PM
Surr: 4-Bromofluorobenzene	94.7	39.1-146		%Rec	1	12/4/2023 5:09:01 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	12/5/2023 3:42:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-115 0-4'

Project: Prometheus

Collection Date: 11/29/2023 10:40:00 AM

Lab ID: 2312011-008

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/4/2023 2:20:58 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/4/2023 2:20:58 PM
Surr: DNOP	198	69-147	S	%Rec	1	12/4/2023 2:20:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/4/2023 5:32:28 PM
Surr: BFB	91.1	15-244		%Rec	1	12/4/2023 5:32:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/4/2023 5:32:28 PM
Toluene	ND	0.048		mg/Kg	1	12/4/2023 5:32:28 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/4/2023 5:32:28 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/4/2023 5:32:28 PM
Surr: 4-Bromofluorobenzene	95.6	39.1-146		%Rec	1	12/4/2023 5:32:28 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	12/5/2023 3:57:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-18 4'

Project: Prometheus

Collection Date: 11/29/2023 11:00:00 AM

Lab ID: 2312011-009

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/4/2023 2:31:41 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/4/2023 2:31:41 PM
Surr: DNOP	96.2	69-147		%Rec	1	12/4/2023 2:31:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/4/2023 5:55:47 PM
Surr: BFB	90.1	15-244		%Rec	1	12/4/2023 5:55:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/4/2023 5:55:47 PM
Toluene	ND	0.048		mg/Kg	1	12/4/2023 5:55:47 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/4/2023 5:55:47 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/4/2023 5:55:47 PM
Surr: 4-Bromofluorobenzene	94.0	39.1-146		%Rec	1	12/4/2023 5:55:47 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	690	60		mg/Kg	20	12/5/2023 4:12:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-19 4'

Project: Prometheus

Collection Date: 11/29/2023 11:05:00 AM

Lab ID: 2312011-010

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/4/2023 2:42:24 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/4/2023 2:42:24 PM
Surr: DNOP	93.1	69-147		%Rec	1	12/4/2023 2:42:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/4/2023 6:19:01 PM
Surr: BFB	94.8	15-244		%Rec	1	12/4/2023 6:19:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/4/2023 6:19:01 PM
Toluene	ND	0.050		mg/Kg	1	12/4/2023 6:19:01 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/4/2023 6:19:01 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/4/2023 6:19:01 PM
Surr: 4-Bromofluorobenzene	99.6	39.1-146		%Rec	1	12/4/2023 6:19:01 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	400	60		mg/Kg	20	12/5/2023 4:27:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-20 4'

Project: Prometheus

Collection Date: 11/29/2023 11:10:00 AM

Lab ID: 2312011-011

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/4/2023 2:53:09 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/4/2023 2:53:09 PM
Surr: DNOP	102	69-147		%Rec	1	12/4/2023 2:53:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/4/2023 6:42:21 PM
Surr: BFB	91.0	15-244		%Rec	1	12/4/2023 6:42:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/4/2023 6:42:21 PM
Toluene	ND	0.048		mg/Kg	1	12/4/2023 6:42:21 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/4/2023 6:42:21 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/4/2023 6:42:21 PM
Surr: 4-Bromofluorobenzene	95.6	39.1-146		%Rec	1	12/4/2023 6:42:21 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	730	60		mg/Kg	20	12/5/2023 4:42:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312011
Date Reported: 12/8/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-21 4'
Project: Prometheus Collection Date: 11/29/2023 11:15:00 AM
Lab ID: 2312011-012 Matrix: Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/4/2023 3:04:07 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/4/2023 3:04:07 PM
Surr: DNOP	99.6	69-147		%Rec	1	12/4/2023 3:04:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/4/2023 7:05:48 PM
Surr: BFB	90.4	15-244		%Rec	1	12/4/2023 7:05:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/4/2023 7:05:48 PM
Toluene	ND	0.049		mg/Kg	1	12/4/2023 7:05:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/4/2023 7:05:48 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/4/2023 7:05:48 PM
Surr: 4-Bromofluorobenzene	94.7	39.1-146		%Rec	1	12/4/2023 7:05:48 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	480	60		mg/Kg	20	12/5/2023 4:58:07 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-22 4'

Project: Prometheus

Collection Date: 11/29/2023 11:20:00 AM

Lab ID: 2312011-013

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/4/2023 3:14:53 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/4/2023 3:14:53 PM
Surr: DNOP	92.9	69-147		%Rec	1	12/4/2023 3:14:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/4/2023 7:29:13 PM
Surr: BFB	92.2	15-244		%Rec	1	12/4/2023 7:29:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/4/2023 7:29:13 PM
Toluene	ND	0.049		mg/Kg	1	12/4/2023 7:29:13 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/4/2023 7:29:13 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/4/2023 7:29:13 PM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	12/4/2023 7:29:13 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	300	60		mg/Kg	20	12/5/2023 5:13:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-23 4'

Project: Prometheus

Collection Date: 11/29/2023 11:25:00 AM

Lab ID: 2312011-014

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/4/2023 3:25:39 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/4/2023 3:25:39 PM
Surr: DNOP	91.9	69-147		%Rec	1	12/4/2023 3:25:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/4/2023 7:52:34 PM
Surr: BFB	92.2	15-244		%Rec	1	12/4/2023 7:52:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/4/2023 7:52:34 PM
Toluene	ND	0.050		mg/Kg	1	12/4/2023 7:52:34 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/4/2023 7:52:34 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/4/2023 7:52:34 PM
Surr: 4-Bromofluorobenzene	97.7	39.1-146		%Rec	1	12/4/2023 7:52:34 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	870	60		mg/Kg	20	12/5/2023 5:28:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-24 4'

Project: Prometheus

Collection Date: 11/29/2023 11:30:00 AM

Lab ID: 2312011-015

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/4/2023 3:36:34 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/4/2023 3:36:34 PM
Surr: DNOP	95.2	69-147		%Rec	1	12/4/2023 3:36:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/4/2023 8:15:57 PM
Surr: BFB	92.3	15-244		%Rec	1	12/4/2023 8:15:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/4/2023 8:15:57 PM
Toluene	ND	0.047		mg/Kg	1	12/4/2023 8:15:57 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/4/2023 8:15:57 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/4/2023 8:15:57 PM
Surr: 4-Bromofluorobenzene	96.5	39.1-146		%Rec	1	12/4/2023 8:15:57 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1600	60		mg/Kg	20	12/5/2023 5:43:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-25 4'

Project: Prometheus

Collection Date: 11/29/2023 11:35:00 AM

Lab ID: 2312011-016

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/5/2023 10:01:49 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/5/2023 10:01:49 AM
Surr: DNOP	82.5	69-147		%Rec	1	12/5/2023 10:01:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/5/2023 2:42:00 PM
Surr: BFB	105	15-244		%Rec	1	12/5/2023 2:42:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/5/2023 2:42:00 PM
Toluene	ND	0.048		mg/Kg	1	12/5/2023 2:42:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/5/2023 2:42:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/5/2023 2:42:00 PM
Surr: 4-Bromofluorobenzene	99.9	39.1-146		%Rec	1	12/5/2023 2:42:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1200	60		mg/Kg	20	12/5/2023 7:16:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-26 4'

Project: Prometheus

Collection Date: 11/29/2023 11:40:00 AM

Lab ID: 2312011-017

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/5/2023 10:12:19 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/5/2023 10:12:19 AM
Surr: DNOP	92.9	69-147		%Rec	1	12/5/2023 10:12:19 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2023 3:47:00 PM
Surr: BFB	103	15-244		%Rec	1	12/5/2023 3:47:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/5/2023 3:47:00 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2023 3:47:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2023 3:47:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/5/2023 3:47:00 PM
Surr: 4-Bromofluorobenzene	96.6	39.1-146		%Rec	1	12/5/2023 3:47:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	240	60		mg/Kg	20	12/5/2023 8:01:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-27 4'

Project: Prometheus

Collection Date: 11/29/2023 11:45:00 AM

Lab ID: 2312011-018

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/5/2023 10:23:01 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/5/2023 10:23:01 AM
Surr: DNOP	89.0	69-147		%Rec	1	12/5/2023 10:23:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/5/2023 4:53:00 PM
Surr: BFB	107	15-244		%Rec	1	12/5/2023 4:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/5/2023 4:53:00 PM
Toluene	ND	0.046		mg/Kg	1	12/5/2023 4:53:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/5/2023 4:53:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	12/5/2023 4:53:00 PM
Surr: 4-Bromofluorobenzene	99.6	39.1-146		%Rec	1	12/5/2023 4:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	590	60		mg/Kg	20	12/5/2023 8:47:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-28 4'

Project: Prometheus

Collection Date: 11/29/2023 11:50:00 AM

Lab ID: 2312011-019

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/5/2023 10:33:31 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/5/2023 10:33:31 AM
Surr: DNOP	83.3	69-147		%Rec	1	12/5/2023 10:33:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/5/2023 5:14:00 PM
Surr: BFB	102	15-244		%Rec	1	12/5/2023 5:14:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/5/2023 5:14:00 PM
Toluene	ND	0.049		mg/Kg	1	12/5/2023 5:14:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/5/2023 5:14:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/5/2023 5:14:00 PM
Surr: 4-Bromofluorobenzene	98.0	39.1-146		%Rec	1	12/5/2023 5:14:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	610	60		mg/Kg	20	12/5/2023 9:32:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-29 4'

Project: Prometheus

Collection Date: 11/29/2023 11:55:00 AM

Lab ID: 2312011-020

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/5/2023 10:44:01 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/5/2023 10:44:01 AM
Surr: DNOP	81.8	69-147		%Rec	1	12/5/2023 10:44:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/5/2023 5:36:00 PM
Surr: BFB	98.6	15-244		%Rec	1	12/5/2023 5:36:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/5/2023 5:36:00 PM
Toluene	ND	0.047		mg/Kg	1	12/5/2023 5:36:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/5/2023 5:36:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	12/5/2023 5:36:00 PM
Surr: 4-Bromofluorobenzene	96.8	39.1-146		%Rec	1	12/5/2023 5:36:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1400	60		mg/Kg	20	12/5/2023 9:48:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-30 4'

Project: Prometheus

Collection Date: 11/29/2023 12:00:00 PM

Lab ID: 2312011-021

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	22	9.4		mg/Kg	1	12/5/2023 10:54:33 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/5/2023 10:54:33 AM
Surr: DNOP	77.6	69-147		%Rec	1	12/5/2023 10:54:33 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/5/2023 5:58:00 PM
Surr: BFB	99.6	15-244		%Rec	1	12/5/2023 5:58:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/5/2023 5:58:00 PM
Toluene	ND	0.047		mg/Kg	1	12/5/2023 5:58:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/5/2023 5:58:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	12/5/2023 5:58:00 PM
Surr: 4-Bromofluorobenzene	95.8	39.1-146		%Rec	1	12/5/2023 5:58:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	2000	60		mg/Kg	20	12/5/2023 10:03:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-31 4'

Project: Prometheus

Collection Date: 11/29/2023 12:05:00 PM

Lab ID: 2312011-022

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/5/2023 11:15:35 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/5/2023 11:15:35 AM
Surr: DNOP	86.0	69-147		%Rec	1	12/5/2023 11:15:35 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/5/2023 6:20:00 PM
Surr: BFB	97.3	15-244		%Rec	1	12/5/2023 6:20:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/5/2023 6:20:00 PM
Toluene	ND	0.048		mg/Kg	1	12/5/2023 6:20:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/5/2023 6:20:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/5/2023 6:20:00 PM
Surr: 4-Bromofluorobenzene	95.1	39.1-146		%Rec	1	12/5/2023 6:20:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	870	60		mg/Kg	20	12/5/2023 10:18:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-32 4'

Project: Prometheus

Collection Date: 11/29/2023 12:10:00 PM

Lab ID: 2312011-023

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/5/2023 11:26:10 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/5/2023 11:26:10 AM
Surr: DNOP	114	69-147		%Rec	1	12/5/2023 11:26:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/5/2023 6:41:00 PM
Surr: BFB	101	15-244		%Rec	1	12/5/2023 6:41:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/5/2023 6:41:00 PM
Toluene	ND	0.048		mg/Kg	1	12/5/2023 6:41:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/5/2023 6:41:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/5/2023 6:41:00 PM
Surr: 4-Bromofluorobenzene	98.2	39.1-146		%Rec	1	12/5/2023 6:41:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1600	60		mg/Kg	20	12/5/2023 10:33:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312011

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-33 4'

Project: Prometheus

Collection Date: 11/29/2023 12:15:00 PM

Lab ID: 2312011-024

Matrix:

Received Date: 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/5/2023 11:36:47 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/5/2023 11:36:47 AM
Surr: DNOP	76.9	69-147		%Rec	1	12/5/2023 11:36:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/5/2023 7:03:00 PM
Surr: BFB	103	15-244		%Rec	1	12/5/2023 7:03:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/5/2023 7:03:00 PM
Toluene	ND	0.049		mg/Kg	1	12/5/2023 7:03:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/5/2023 7:03:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/5/2023 7:03:00 PM
Surr: 4-Bromofluorobenzene	98.6	39.1-146		%Rec	1	12/5/2023 7:03:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	990	60		mg/Kg	20	12/5/2023 10:48:49 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312011

08-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-79127	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 79127	RunNo: 101605
Prep Date: 12/4/2023	Analysis Date: 12/5/2023	SeqNo: 3743288 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-79127	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 79127	RunNo: 101605
Prep Date: 12/4/2023	Analysis Date: 12/5/2023	SeqNo: 3743289 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.5 90 110

Sample ID: MB-79154	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 79154	RunNo: 101605
Prep Date: 12/5/2023	Analysis Date: 12/5/2023	SeqNo: 3743323 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-79154	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 79154	RunNo: 101605
Prep Date: 12/5/2023	Analysis Date: 12/5/2023	SeqNo: 3743324 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.8 90 110

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312011

08-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2312011-015AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: BS23-24 4'	Batch ID: 79105	RunNo: 101577
Prep Date: 12/1/2023	Analysis Date: 12/4/2023	SeqNo: 3740454 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	42	9.6 47.94 0 88.1 54.2 135
Surr: DNOP	4.9	4.794 102 69 147

Sample ID: 2312011-015AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: BS23-24 4'	Batch ID: 79105	RunNo: 101577
Prep Date: 12/1/2023	Analysis Date: 12/4/2023	SeqNo: 3740455 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	42	9.8 49.07 0 85.2 54.2 135 1.08 29.2
Surr: DNOP	4.8	4.907 98.1 69 147 0 0

Sample ID: LCS-79105	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 79105	RunNo: 101577
Prep Date: 12/1/2023	Analysis Date: 12/4/2023	SeqNo: 3740456 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	52	10 50.00 0 103 61.9 130
Surr: DNOP	5.5	5.000 110 69 147

Sample ID: LCS-79133	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 79133	RunNo: 101577
Prep Date: 12/4/2023	Analysis Date: 12/4/2023	SeqNo: 3740457 Units: %Rec
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.0	5.000 79.5 69 147

Sample ID: MB-79105	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 79105	RunNo: 101577
Prep Date: 12/1/2023	Analysis Date: 12/4/2023	SeqNo: 3740458 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND	10
Motor Oil Range Organics (MRO)	ND	50
Surr: DNOP	10	10.00 99.8 69 147

Sample ID: MB-79133	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 79133	RunNo: 101577
Prep Date: 12/4/2023	Analysis Date: 12/4/2023	SeqNo: 3740459 Units: %Rec
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312011
08-Dec-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: MB-79133	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79133	RunNo: 101577								
Prep Date: 12/4/2023	Analysis Date: 12/4/2023	SeqNo: 3740459	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		82.3	69	147			

Sample ID: LCS-79135	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79135	RunNo: 101616								
Prep Date: 12/4/2023	Analysis Date: 12/5/2023	SeqNo: 3742356	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	78.7	61.9	130			
Surr: DNOP	4.1		5.000		82.4	69	147			

Sample ID: MB-79135	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79135	RunNo: 101616								
Prep Date: 12/4/2023	Analysis Date: 12/5/2023	SeqNo: 3742358	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.9	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312011

08-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: lcs-79101	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 79101			RunNo: 101567						
Prep Date: 12/1/2023	Analysis Date: 12/4/2023			SeqNo: 3740056		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.1	70	130			
Surr: BFB	1900		1000		192	15	244			

Sample ID: mb-79101	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 79101			RunNo: 101567						
Prep Date: 12/1/2023	Analysis Date: 12/4/2023			SeqNo: 3740057		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.0	15	244			

Sample ID: lcs-79131	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 79131			RunNo: 101628						
Prep Date: 12/4/2023	Analysis Date: 12/5/2023			SeqNo: 3743202		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.5	70	130			
Surr: BFB	2200		1000		219	15	244			

Sample ID: mb-79131	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 79131			RunNo: 101628						
Prep Date: 12/4/2023	Analysis Date: 12/5/2023			SeqNo: 3743203		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	15	244			

Sample ID: 2312011-016ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS23-25 4'	Batch ID: 79131			RunNo: 101628						
Prep Date: 12/4/2023	Analysis Date: 12/5/2023			SeqNo: 3743206		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.99	0	101	70	130			
Surr: BFB	2200		959.7		233	15	244			

Sample ID: 2312011-016amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS23-25 4'	Batch ID: 79131			RunNo: 101628						
Prep Date: 12/4/2023	Analysis Date: 12/5/2023			SeqNo: 3743207		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.99	0	101	70	130			
Surr: BFB	2200		959.7		233	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 231201108-Dec-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: 2312011-016amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BS23-25 4'		Batch ID: 79131			RunNo: 101628					
Prep Date: 12/4/2023		Analysis Date: 12/5/2023			SeqNo: 3743207		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.90	0	101	70	130	0.264	20	
Surr: BFB	2300		956.0		236	15	244	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312011

08-Dec-23

Client: Vertex Resources Services, Inc.**Project:** Prometheus

Sample ID: LCS-79101	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 79101		RunNo: 101567							
Prep Date: 12/1/2023	Analysis Date: 12/4/2023		SeqNo: 3740090		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.5	70	130			
Toluene	0.92	0.050	1.000	0	92.1	70	130			
Ethylbenzene	0.93	0.050	1.000	0	92.6	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.8	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.3	39.1	146			

Sample ID: mb-79101	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 79101		RunNo: 101567							
Prep Date: 12/1/2023	Analysis Date: 12/4/2023		SeqNo: 3740092		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.1	39.1	146			

Sample ID: lcs-79131	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 79131		RunNo: 101628							
Prep Date: 12/4/2023	Analysis Date: 12/5/2023		SeqNo: 3743255		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	70	130			
Toluene	0.96	0.050	1.000	0	96.4	70	130			
Ethylbenzene	0.99	0.050	1.000	0	98.5	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.7	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	39.1	146			

Sample ID: mb-79131	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 79131		RunNo: 101628							
Prep Date: 12/4/2023	Analysis Date: 12/5/2023		SeqNo: 3743256		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312011
08-Dec-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: 2312011-017ams		SampType: MS		TestCode: EPA Method 8021B: Volatiles						
Client ID: BS23-26 4'		Batch ID: 79131		RunNo: 101628						
Prep Date: 12/4/2023		Analysis Date: 12/5/2023		SeqNo: 3743260		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9891	0	108	70	130			
Toluene	1.1	0.049	0.9891	0	110	70	130			
Ethylbenzene	1.1	0.049	0.9891	0	114	70	130			
Xylenes, Total	3.4	0.099	2.967	0	114	70	130			
Surr: 4-Bromofluorobenzene	0.99		0.9891		99.8	39.1	146			

Sample ID: 2312011-017amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: BS23-26 4'		Batch ID: 79131		RunNo: 101628						
Prep Date: 12/4/2023		Analysis Date: 12/5/2023		SeqNo: 3743261		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9911	0	110	70	130	1.52	20	
Toluene	1.1	0.050	0.9911	0	112	70	130	1.76	20	
Ethylbenzene	1.1	0.050	0.9911	0	116	70	130	1.80	20	
Xylenes, Total	3.5	0.099	2.973	0	116	70	130	2.22	20	
Surr: 4-Bromofluorobenzene	0.99		0.9911		100	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 31 of 31

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2312011

RcptNo: 1

Received By: Juan Rojas

12/1/2023 7:45:00 AM

Completed By: Desiree Dominguez

12/1/2023 8:58:23 AM

Reviewed By:

JA 12-1-23

Hans

DD

Chain of Custody1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐2. How was the sample delivered? CourierLog In3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐5. Sample(s) in proper container(s)? Yes ☒ No ☐6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐13. Is it clear what analyses were requested? Yes ☒ No ☐14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: ju 12/1/23Special Handling (if applicable)15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good	Not Present	Yogi		

Chain-of-Custody Record

Client: Vertex

Mailing Address: _____

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other _____☐ EDD (Type) _____

Turn-Around Time:

☐ Standard ☒ Rush 72-hour Rush

Project Name:

Prometheus

Project #:

23E-03329

Project Manager: _____

Michael Moffitt

M. Moffitt@vertex.ca

Sampler: L. P. Loman


On Ice: ☒ Yes ☐ No

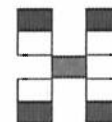
of Coolers: 1 4091

Cooler Temp (including CF): $10.5 + 10.1 = 20.6 (^{\circ}\text{C})$

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11-29-23	11:20	Soil	BS23-22 4'	1 402 Jar		2312011 -013
	11:25		BS23-23 4'			-014
	11:30		BS23-24 4'			-015
	11:35		BS23-25 4'			-016
	11:40		BS23-26 4'			-017
	11:45		BS23-27 4'			-018
	11:50		BS23-28 4'			-019
	11:55		BS23-29 4'			-020
	12:00		BS23-30 4'			-021
	12:05		BS23-31 4'			-022
	12:10		BS23-32 4'			-023
✓	12:15	✓	BS23-33 4'	✓		-024

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11-30-23	07:00				11/30/23	700

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/30/23	1900	admiral		owner	12/1/23	7:45



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks:
Ace Fluid Solutions
cc. M.Moffitt@verdex.ca, S.Carr-Harr@verdex.ca
2/2



Environment Testing

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 11, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2312088

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 18 sample(s) on 12/2/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-11 4'

Project: Prometheus

Collection Date: 11/30/2023 8:00:00 AM

Lab ID: 2312088-001

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/5/2023 11:47:24 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/5/2023 11:47:24 AM
Surr: DNOP	83.5	69-147		%Rec	1	12/5/2023 11:47:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2023 8:08:00 PM
Surr: BFB	97.7	15-244		%Rec	1	12/5/2023 8:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/5/2023 8:08:00 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2023 8:08:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2023 8:08:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/5/2023 8:08:00 PM
Surr: 4-Bromofluorobenzene	98.6	39.1-146		%Rec	1	12/5/2023 8:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	12/5/2023 11:03:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-12 4'

Project: Prometheus

Collection Date: 11/30/2023 8:05:00 AM

Lab ID: 2312088-002

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/5/2023 11:58:02 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/5/2023 11:58:02 AM
Surr: DNOP	86.4	69-147		%Rec	1	12/5/2023 11:58:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/5/2023 8:30:00 PM
Surr: BFB	103	15-244		%Rec	1	12/5/2023 8:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/5/2023 8:30:00 PM
Toluene	ND	0.047		mg/Kg	1	12/5/2023 8:30:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/5/2023 8:30:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/5/2023 8:30:00 PM
Surr: 4-Bromofluorobenzene	98.1	39.1-146		%Rec	1	12/5/2023 8:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	110	60		mg/Kg	20	12/5/2023 11:19:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-13 4'

Project: Prometheus

Collection Date: 11/30/2023 8:10:00 AM

Lab ID: 2312088-003

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/5/2023 12:08:42 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/5/2023 12:08:42 PM
Surr: DNOP	80.5	69-147		%Rec	1	12/5/2023 12:08:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/5/2023 8:52:00 PM
Surr: BFB	100	15-244		%Rec	1	12/5/2023 8:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/5/2023 8:52:00 PM
Toluene	ND	0.049		mg/Kg	1	12/5/2023 8:52:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/5/2023 8:52:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/5/2023 8:52:00 PM
Surr: 4-Bromofluorobenzene	98.6	39.1-146		%Rec	1	12/5/2023 8:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	12/5/2023 11:34:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-14 4'

Project: Prometheus

Collection Date: 11/30/2023 8:15:00 AM

Lab ID: 2312088-004

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/5/2023 12:19:23 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/5/2023 12:19:23 PM
Surr: DNOP	82.1	69-147		%Rec	1	12/5/2023 12:19:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/5/2023 9:13:00 PM
Surr: BFB	99.6	15-244		%Rec	1	12/5/2023 9:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/5/2023 9:13:00 PM
Toluene	ND	0.049		mg/Kg	1	12/5/2023 9:13:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/5/2023 9:13:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/5/2023 9:13:00 PM
Surr: 4-Bromofluorobenzene	99.0	39.1-146		%Rec	1	12/5/2023 9:13:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	12/5/2023 11:49:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-15 4'

Project: Prometheus

Collection Date: 11/30/2023 8:20:00 AM

Lab ID: 2312088-005

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/5/2023 12:30:07 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/5/2023 12:30:07 PM
Surr: DNOP	86.7	69-147		%Rec	1	12/5/2023 12:30:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/5/2023 9:35:00 PM
Surr: BFB	102	15-244		%Rec	1	12/5/2023 9:35:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/5/2023 9:35:00 PM
Toluene	ND	0.049		mg/Kg	1	12/5/2023 9:35:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/5/2023 9:35:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/5/2023 9:35:00 PM
Surr: 4-Bromofluorobenzene	98.3	39.1-146		%Rec	1	12/5/2023 9:35:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	400	60		mg/Kg	20	12/6/2023 12:34:56 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312088
Date Reported: 12/11/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-16 4'
Project: Prometheus Collection Date: 11/30/2023 8:25:00 AM
Lab ID: 2312088-006 Matrix: SOIL Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/5/2023 12:41:01 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/5/2023 12:41:01 PM
Surr: DNOP	83.9	69-147		%Rec	1	12/5/2023 12:41:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/5/2023 9:57:00 PM
Surr: BFB	101	15-244		%Rec	1	12/5/2023 9:57:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/5/2023 9:57:00 PM
Toluene	ND	0.046		mg/Kg	1	12/5/2023 9:57:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/5/2023 9:57:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	12/5/2023 9:57:00 PM
Surr: 4-Bromofluorobenzene	96.8	39.1-146		%Rec	1	12/5/2023 9:57:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	310	60		mg/Kg	20	12/6/2023 12:50:07 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312088
Date Reported: 12/11/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-17 4'
Project: Prometheus Collection Date: 11/30/2023 8:30:00 AM
Lab ID: 2312088-007 Matrix: SOIL Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/5/2023 12:51:55 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/5/2023 12:51:55 PM
Surr: DNOP	84.7	69-147		%Rec	1	12/5/2023 12:51:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/5/2023 10:19:00 PM
Surr: BFB	101	15-244		%Rec	1	12/5/2023 10:19:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/5/2023 10:19:00 PM
Toluene	ND	0.049		mg/Kg	1	12/5/2023 10:19:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/5/2023 10:19:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/5/2023 10:19:00 PM
Surr: 4-Bromofluorobenzene	97.1	39.1-146		%Rec	1	12/5/2023 10:19:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	98	60		mg/Kg	20	12/6/2023 1:05:16 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-08 0-4'

Project: Prometheus

Collection Date: 11/30/2023 9:10:00 AM

Lab ID: 2312088-008

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/5/2023 1:02:49 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/5/2023 1:02:49 PM
Surr: DNOP	82.7	69-147		%Rec	1	12/5/2023 1:02:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2023 10:40:00 PM
Surr: BFB	101	15-244		%Rec	1	12/5/2023 10:40:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/5/2023 10:40:00 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2023 10:40:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2023 10:40:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/5/2023 10:40:00 PM
Surr: 4-Bromofluorobenzene	95.9	39.1-146		%Rec	1	12/5/2023 10:40:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	96	60		mg/Kg	20	12/6/2023 1:20:27 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-64 0-4'

Project: Prometheus

Collection Date: 11/30/2023 9:15:00 AM

Lab ID: 2312088-009

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/5/2023 1:13:41 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/5/2023 1:13:41 PM
Surr: DNOP	85.2	69-147		%Rec	1	12/5/2023 1:13:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/5/2023 11:02:00 PM
Surr: BFB	107	15-244		%Rec	1	12/5/2023 11:02:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/5/2023 11:02:00 PM
Toluene	ND	0.047		mg/Kg	1	12/5/2023 11:02:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/5/2023 11:02:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	12/5/2023 11:02:00 PM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	12/5/2023 11:02:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	12/6/2023 1:35:37 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-116 0-4'

Project: Prometheus

Collection Date: 11/30/2023 8:50:00 AM

Lab ID: 2312088-010

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/5/2023 1:24:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/5/2023 1:24:35 PM
Surr: DNOP	91.8	69-147		%Rec	1	12/5/2023 1:24:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/5/2023 11:23:00 PM
Surr: BFB	98.7	15-244		%Rec	1	12/5/2023 11:23:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/5/2023 11:23:00 PM
Toluene	ND	0.048		mg/Kg	1	12/5/2023 11:23:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/5/2023 11:23:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/5/2023 11:23:00 PM
Surr: 4-Bromofluorobenzene	95.0	39.1-146		%Rec	1	12/5/2023 11:23:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	87	60		mg/Kg	20	12/6/2023 1:50:47 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312088
Date Reported: 12/11/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-117 0-4'
Project: Prometheus Collection Date: 11/30/2023 8:55:00 AM
Lab ID: 2312088-011 Matrix: SOIL Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/5/2023 1:35:28 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/5/2023 1:35:28 PM
Surr: DNOP	88.1	69-147		%Rec	1	12/5/2023 1:35:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/6/2023 12:07:00 AM
Surr: BFB	103	15-244		%Rec	1	12/6/2023 12:07:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/6/2023 12:07:00 AM
Toluene	ND	0.050		mg/Kg	1	12/6/2023 12:07:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/6/2023 12:07:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/6/2023 12:07:00 AM
Surr: 4-Bromofluorobenzene	94.1	39.1-146		%Rec	1	12/6/2023 12:07:00 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	12/6/2023 2:05:57 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-118 0-4'

Project: Prometheus

Collection Date: 11/30/2023 9:00:00 AM

Lab ID: 2312088-012

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	12/6/2023 4:35:39 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/6/2023 4:35:39 PM
Surr: DNOP	100	69-147		%Rec	1	12/6/2023 4:35:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/6/2023 11:01:34 AM
Surr: BFB	89.8	15-244		%Rec	1	12/6/2023 11:01:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/6/2023 11:01:34 AM
Toluene	ND	0.048		mg/Kg	1	12/6/2023 11:01:34 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/6/2023 11:01:34 AM
Xylenes, Total	ND	0.096		mg/Kg	1	12/6/2023 11:01:34 AM
Surr: 4-Bromofluorobenzene	94.3	39.1-146		%Rec	1	12/6/2023 11:01:34 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	74	60		mg/Kg	20	12/6/2023 12:24:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-119 0-4'

Project: Prometheus

Collection Date: 11/30/2023 9:05:00 AM

Lab ID: 2312088-013

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	12/6/2023 4:46:26 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/6/2023 4:46:26 PM
Surr: DNOP	82.4	69-147		%Rec	1	12/6/2023 4:46:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/6/2023 11:24:52 AM
Surr: BFB	89.8	15-244		%Rec	1	12/6/2023 11:24:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/6/2023 11:24:52 AM
Toluene	ND	0.048		mg/Kg	1	12/6/2023 11:24:52 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/6/2023 11:24:52 AM
Xylenes, Total	ND	0.096		mg/Kg	1	12/6/2023 11:24:52 AM
Surr: 4-Bromofluorobenzene	93.7	39.1-146		%Rec	1	12/6/2023 11:24:52 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/6/2023 1:43:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-120 0-4'

Project: Prometheus

Collection Date: 11/30/2023 9:20:00 AM

Lab ID: 2312088-014

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/6/2023 4:57:13 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/6/2023 4:57:13 PM
Surr: DNOP	78.9	69-147		%Rec	1	12/6/2023 4:57:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/6/2023 11:48:14 AM
Surr: BFB	94.7	15-244		%Rec	1	12/6/2023 11:48:14 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/6/2023 11:48:14 AM
Toluene	ND	0.048		mg/Kg	1	12/6/2023 11:48:14 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/6/2023 11:48:14 AM
Xylenes, Total	ND	0.096		mg/Kg	1	12/6/2023 11:48:14 AM
Surr: 4-Bromofluorobenzene	96.2	39.1-146		%Rec	1	12/6/2023 11:48:14 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/6/2023 2:29:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-121 0-4'

Project: Prometheus

Collection Date: 11/30/2023 9:25:00 AM

Lab ID: 2312088-015

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/6/2023 5:07:59 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/6/2023 5:07:59 PM
Surr: DNOP	78.8	69-147		%Rec	1	12/6/2023 5:07:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/6/2023 12:11:42 PM
Surr: BFB	92.9	15-244		%Rec	1	12/6/2023 12:11:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/6/2023 12:11:42 PM
Toluene	ND	0.050		mg/Kg	1	12/6/2023 12:11:42 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/6/2023 12:11:42 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/6/2023 12:11:42 PM
Surr: 4-Bromofluorobenzene	97.7	39.1-146		%Rec	1	12/6/2023 12:11:42 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	98	60		mg/Kg	20	12/6/2023 2:44:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-122 0-4'

Project: Prometheus

Collection Date: 11/30/2023 9:30:00 AM

Lab ID: 2312088-016

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	12/6/2023 5:18:45 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/6/2023 5:18:45 PM
Surr: DNOP	82.2	69-147		%Rec	1	12/6/2023 5:18:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/6/2023 12:35:14 PM
Surr: BFB	93.9	15-244		%Rec	1	12/6/2023 12:35:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/6/2023 12:35:14 PM
Toluene	ND	0.047		mg/Kg	1	12/6/2023 12:35:14 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/6/2023 12:35:14 PM
Xylenes, Total	ND	0.094		mg/Kg	1	12/6/2023 12:35:14 PM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	12/6/2023 12:35:14 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/6/2023 2:59:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-123 0-4'

Project: Prometheus

Collection Date: 11/30/2023 9:35:00 AM

Lab ID: 2312088-017

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/6/2023 5:29:39 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/6/2023 5:29:39 PM
Surr: DNOP	83.6	69-147		%Rec	1	12/6/2023 5:29:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/6/2023 12:58:46 PM
Surr: BFB	92.5	15-244		%Rec	1	12/6/2023 12:58:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/6/2023 12:58:46 PM
Toluene	ND	0.049		mg/Kg	1	12/6/2023 12:58:46 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/6/2023 12:58:46 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/6/2023 12:58:46 PM
Surr: 4-Bromofluorobenzene	96.6	39.1-146		%Rec	1	12/6/2023 12:58:46 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/6/2023 3:14:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312088

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-124 0-4'

Project: Prometheus

Collection Date: 11/30/2023 9:40:00 AM

Lab ID: 2312088-018

Matrix: SOIL

Received Date: 12/2/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	12/6/2023 5:40:31 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	12/6/2023 5:40:31 PM
Surr: DNOP	84.8	69-147		%Rec	1	12/6/2023 5:40:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/6/2023 1:22:20 PM
Surr: BFB	94.1	15-244		%Rec	1	12/6/2023 1:22:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/6/2023 1:22:20 PM
Toluene	ND	0.047		mg/Kg	1	12/6/2023 1:22:20 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/6/2023 1:22:20 PM
Xylenes, Total	ND	0.094		mg/Kg	1	12/6/2023 1:22:20 PM
Surr: 4-Bromofluorobenzene	96.5	39.1-146		%Rec	1	12/6/2023 1:22:20 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/6/2023 3:29:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312088

11-Dec-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: MB-79154	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 79154	RunNo: 101605
Prep Date: 12/5/2023	Analysis Date: 12/5/2023	SeqNo: 3743323 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-79154	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 79154	RunNo: 101605
Prep Date: 12/5/2023	Analysis Date: 12/5/2023	SeqNo: 3743324 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.8 90 110

Sample ID: MB-79179	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 79179	RunNo: 101662
Prep Date: 12/6/2023	Analysis Date: 12/6/2023	SeqNo: 3744900 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-79179	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 79179	RunNo: 101662
Prep Date: 12/6/2023	Analysis Date: 12/6/2023	SeqNo: 3744901 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 91.7 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312088

11-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2312088-011AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-117 0-4'	Batch ID: 79135	RunNo: 101616								
Prep Date: 12/4/2023	Analysis Date: 12/5/2023	SeqNo: 3742354 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.5	47.57	0	82.6	54.2	135			
Surr: DNOP	4.3		4.757		89.3	69	147			

Sample ID: 2312088-011AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-117 0-4'	Batch ID: 79135	RunNo: 101616								
Prep Date: 12/4/2023	Analysis Date: 12/5/2023	SeqNo: 3742355 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.2	45.91	0	80.8	54.2	135	5.74	29.2	
Surr: DNOP	4.0		4.591		86.4	69	147	0	0	

Sample ID: LCS-79135	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79135	RunNo: 101616								
Prep Date: 12/4/2023	Analysis Date: 12/5/2023	SeqNo: 3742356 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	78.7	61.9	130			
Surr: DNOP	4.1		5.000		82.4	69	147			

Sample ID: MB-79135	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79135	RunNo: 101616								
Prep Date: 12/4/2023	Analysis Date: 12/5/2023	SeqNo: 3742358 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.9	69	147			

Sample ID: 2312088-018AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-124 0-4'	Batch ID: 79166	RunNo: 101659								
Prep Date: 12/5/2023	Analysis Date: 12/6/2023	SeqNo: 3744233 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	34	8.5	42.44	0	80.4	54.2	135			
Surr: DNOP	3.6		4.244		85.9	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312088

11-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2312088-018AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-124 0-4'	Batch ID: 79166	RunNo: 101659								
Prep Date: 12/5/2023	Analysis Date: 12/6/2023	SeqNo: 3744235	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.3	46.60	0	77.5	54.2	135	5.65	29.2	
Surr: DNOP	3.9		4.660		82.7	69	147	0	0	

Sample ID: LCS-79166	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79166	RunNo: 101659								
Prep Date: 12/5/2023	Analysis Date: 12/6/2023	SeqNo: 3744237	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.3	61.9	130			
Surr: DNOP	4.5		5.000		90.1	69	147			

Sample ID: MB-79166	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79166	RunNo: 101659								
Prep Date: 12/5/2023	Analysis Date: 12/6/2023	SeqNo: 3744239	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	69	147			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312088

11-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: ics-79131	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 79131			RunNo: 101628						
Prep Date: 12/4/2023	Analysis Date: 12/5/2023			SeqNo: 3743202		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.5	70	130			
Surr: BFB	2200		1000		219	15	244			

Sample ID: mb-79131	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 79131			RunNo: 101628						
Prep Date: 12/4/2023	Analysis Date: 12/5/2023			SeqNo: 3743203		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	15	244			

Sample ID: ics-79162	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 79162			RunNo: 101655						
Prep Date: 12/5/2023	Analysis Date: 12/6/2023			SeqNo: 3744203		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	80.5	70	130			
Surr: BFB	1800		1000		179	15	244			

Sample ID: mb-79162	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 79162			RunNo: 101655						
Prep Date: 12/5/2023	Analysis Date: 12/6/2023			SeqNo: 3744205		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		88.5	15	244			

Sample ID: 2312088-012ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: WS23-118 0-4'	Batch ID: 79162			RunNo: 101655						
Prep Date: 12/5/2023	Analysis Date: 12/6/2023			SeqNo: 3744266		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	23.83	0	88.9	70	130			
Surr: BFB	1900		953.3		202	15	244			

Sample ID: 2312088-012amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: WS23-118 0-4'	Batch ID: 79162			RunNo: 101655						
Prep Date: 12/5/2023	Analysis Date: 12/6/2023			SeqNo: 3744267		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	23.83	0	88.9	70	130			
Surr: BFB	1900		953.3		202	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312088

11-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2312088-012amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: WS23-118 0-4'		Batch ID: 79162			RunNo: 101655					
Prep Date: 12/5/2023		Analysis Date: 12/6/2023			SeqNo: 3744267		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	23.97	0	89.3	70	130	1.02	20	
Surr: BFB	1900		958.8		203	15	244	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312088
11-Dec-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: Ics-79131	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 79131	RunNo: 101628								
Prep Date: 12/4/2023	Analysis Date: 12/5/2023	SeqNo: 3743255	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	70	130			
Toluene	0.96	0.050	1.000	0	96.4	70	130			
Ethylbenzene	0.99	0.050	1.000	0	98.5	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.7	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	39.1	146			

Sample ID: mb-79131	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 79131	RunNo: 101628								
Prep Date: 12/4/2023	Analysis Date: 12/5/2023	SeqNo: 3743256	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: LCS-79162	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 79162	RunNo: 101655								
Prep Date: 12/5/2023	Analysis Date: 12/6/2023	SeqNo: 3744277	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.5	70	130			
Toluene	0.94	0.050	1.000	0	93.9	70	130			
Ethylbenzene	0.94	0.050	1.000	0	93.6	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.4	70	130			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	39.1	146			

Sample ID: mb-79162	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 79162	RunNo: 101655								
Prep Date: 12/5/2023	Analysis Date: 12/6/2023	SeqNo: 3744278	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.3	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312088

11-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2312088-013ams		SampType: MS			TestCode: EPA Method 8021B: Volatiles					
Client ID: WS23-119 0-4'		Batch ID: 79162			RunNo: 101655					
Prep Date: 12/5/2023		Analysis Date: 12/6/2023			SeqNo: 3744284		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9524	0	99.6	70	130			
Toluene	0.96	0.048	0.9524	0	101	70	130			
Ethylbenzene	0.98	0.048	0.9524	0	103	70	130			
Xylenes, Total	3.0	0.095	2.857	0	104	70	130			
Surr: 4-Bromofluorobenzene	0.94		0.9524		98.4	39.1	146			

Sample ID: 2312088-013amsd		SampType: MSD			TestCode: EPA Method 8021B: Volatiles					
Client ID: WS23-119 0-4'		Batch ID: 79162			RunNo: 101655					
Prep Date: 12/5/2023		Analysis Date: 12/6/2023			SeqNo: 3744285		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9533	0	100	70	130	0.806	20	
Toluene	0.97	0.048	0.9533	0	102	70	130	0.970	20	
Ethylbenzene	0.99	0.048	0.9533	0	103	70	130	0.163	20	
Xylenes, Total	3.0	0.095	2.860	0	104	70	130	0.195	20	
Surr: 4-Bromofluorobenzene	0.94		0.9533		98.7	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Sample Log-In Check List

Client Name: Vertex Resources Work Order Number: 2312088 RcptNo: 1

Received By: Tracy Casarrubias 12/2/2023 8:30:00 AM

Completed By: Tracy Casarrubias 12/2/2023 8:59:44 AM

Reviewed By: *ju 12/4/23*Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *TMC 12/2/23*Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Mailing address, phone number and Email/Fax are missing on COC- TMC 12/2/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good	Yes	Morty		

Chain-of-Custody Record

Client: ~~Ace Fluid Solutions~~
Vertex

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 72-hour Rush

Project Name:
Promethheus

Project #:
23E-03329

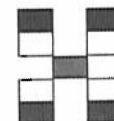
Project Manager:
Michael Moffitt
mmoffitt@vertex.ca

Sampler: L. Pullman

On Ice: ☒ Yes ☐ No morty

of Coolers: 1

Cooler Temp (including CF): 0.8 - 0.8 (°C)

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11-30-23	08:00	Soil	BS23-11 4'	1 4oz Jar		001	X	X					X			
	08:05		BS23-12 4'			002										
	08:10		BS23-13 4'			003										
	08:15		BS23-14 4'			004										
	08:20		BS23-15 4'			005										
	08:25		BS23-16 4'			006										
	08:30		BS23-17 4'			007										
	09:10		WS23-08 0-4'			008										
	09:15		WS23-04 0-4'			009										
	08:50		WS23-116 0-4'			010										
	08:55		WS23-117 0-4'			011	↓	↓					↓			
↓	09:00	↓	WS23-118 0-4'	↓		012	X	X					X			

Date: 12-1-2023 Time: 07:00 Relinquished by: [Signature]

Date: 12/1/23 Time: 07:00 Received by: [Signature] Via: [Signature]

Date: 12/1/23 Time: 07:00 Relinquished by: [Signature]

Date: 12/2/23 Time: 8:30 Received by: [Signature] Via: [Signature]

Remarks: Ace Fluid Solutions
cc. M.Moffitt@Vertex.ca, S.Carr@Vertex.ca
for Final Report 1/2



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

December 18, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2312259

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 51 sample(s) on 12/6/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-88 0-4'

Project: Prometheus

Collection Date: 12/2/2023 11:05:00 AM

Lab ID: 2312259-001

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/7/2023 11:28:22 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/7/2023 11:28:22 AM
Surr: DNOP	73.0	69-147		%Rec	1	12/7/2023 11:28:22 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2023 9:39:00 PM
Surr: BFB	98.6	15-244		%Rec	1	12/8/2023 9:39:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/8/2023 9:39:00 PM
Toluene	ND	0.048		mg/Kg	1	12/8/2023 9:39:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2023 9:39:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/8/2023 9:39:00 PM
Surr: 4-Bromofluorobenzene	95.7	39.1-146		%Rec	1	12/8/2023 9:39:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	150	60		mg/Kg	20	12/8/2023 8:45:55 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-89 0-4'

Project: Prometheus

Collection Date: 12/2/2023 11:00:00 AM

Lab ID: 2312259-002

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/7/2023 11:38:57 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/7/2023 11:38:57 AM
Surr: DNOP	84.2	69-147		%Rec	1	12/7/2023 11:38:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2023 10:44:00 PM
Surr: BFB	102	15-244		%Rec	1	12/8/2023 10:44:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/8/2023 10:44:00 PM
Toluene	ND	0.049		mg/Kg	1	12/8/2023 10:44:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2023 10:44:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/8/2023 10:44:00 PM
Surr: 4-Bromofluorobenzene	96.1	39.1-146		%Rec	1	12/8/2023 10:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	160	60		mg/Kg	20	12/8/2023 9:23:09 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-90 0-4'

Project: Prometheus

Collection Date: 12/2/2023 10:55:00 AM

Lab ID: 2312259-003

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/8/2023 10:14:10 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2023 10:14:10 AM
Surr: DNOP	81.2	69-147		%Rec	1	12/8/2023 10:14:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/8/2023 11:49:00 PM
Surr: BFB	97.9	15-244		%Rec	1	12/8/2023 11:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/8/2023 11:49:00 PM
Toluene	ND	0.047		mg/Kg	1	12/8/2023 11:49:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/8/2023 11:49:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/8/2023 11:49:00 PM
Surr: 4-Bromofluorobenzene	94.3	39.1-146		%Rec	1	12/8/2023 11:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/8/2023 9:35:33 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-92 0-4'

Project: Prometheus

Collection Date: 12/2/2023 8:50:00 AM

Lab ID: 2312259-004

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/8/2023 10:24:42 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/8/2023 10:24:42 AM
Surr: DNOP	80.5	69-147		%Rec	1	12/8/2023 10:24:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2023 12:10:00 AM
Surr: BFB	97.8	15-244		%Rec	1	12/9/2023 12:10:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/9/2023 12:10:00 AM
Toluene	ND	0.049		mg/Kg	1	12/9/2023 12:10:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2023 12:10:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2023 12:10:00 AM
Surr: 4-Bromofluorobenzene	94.2	39.1-146		%Rec	1	12/9/2023 12:10:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/8/2023 10:37:35 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-93 0-4'

Project: Prometheus

Collection Date: 12/2/2023 8:55:00 AM

Lab ID: 2312259-005

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/8/2023 10:35:16 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2023 10:35:16 AM
Surr: DNOP	80.9	69-147		%Rec	1	12/8/2023 10:35:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/9/2023 12:32:00 AM
Surr: BFB	97.1	15-244		%Rec	1	12/9/2023 12:32:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/9/2023 12:32:00 AM
Toluene	ND	0.047		mg/Kg	1	12/9/2023 12:32:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/9/2023 12:32:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	12/9/2023 12:32:00 AM
Surr: 4-Bromofluorobenzene	94.0	39.1-146		%Rec	1	12/9/2023 12:32:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/8/2023 10:50:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-94 0-4'

Project: Prometheus

Collection Date: 12/2/2023 9:00:00 AM

Lab ID: 2312259-006

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/8/2023 10:45:51 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2023 10:45:51 AM
Surr: DNOP	80.1	69-147		%Rec	1	12/8/2023 10:45:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2023 12:53:00 AM
Surr: BFB	101	15-244		%Rec	1	12/9/2023 12:53:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/9/2023 12:53:00 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2023 12:53:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2023 12:53:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	12/9/2023 12:53:00 AM
Surr: 4-Bromofluorobenzene	93.7	39.1-146		%Rec	1	12/9/2023 12:53:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/8/2023 11:02:25 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-95 0-4'

Project: Prometheus

Collection Date: 12/2/2023 10:50:00 AM

Lab ID: 2312259-007

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2023 10:56:26 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2023 10:56:26 AM
Surr: DNOP	79.6	69-147		%Rec	1	12/8/2023 10:56:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/9/2023 1:15:00 AM
Surr: BFB	99.4	15-244		%Rec	1	12/9/2023 1:15:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/9/2023 1:15:00 AM
Toluene	ND	0.047		mg/Kg	1	12/9/2023 1:15:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/9/2023 1:15:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	12/9/2023 1:15:00 AM
Surr: 4-Bromofluorobenzene	94.9	39.1-146		%Rec	1	12/9/2023 1:15:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/8/2023 11:14:50 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-131 0-4'

Project: Prometheus

Collection Date: 12/2/2023 10:00:00 AM

Lab ID: 2312259-008

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/8/2023 11:07:03 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/8/2023 11:07:03 AM
Surr: DNOP	79.9	69-147		%Rec	1	12/8/2023 11:07:03 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2023 1:37:00 AM
Surr: BFB	97.8	15-244		%Rec	1	12/9/2023 1:37:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/9/2023 1:37:00 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2023 1:37:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2023 1:37:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	12/9/2023 1:37:00 AM
Surr: 4-Bromofluorobenzene	94.7	39.1-146		%Rec	1	12/9/2023 1:37:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/8/2023 11:27:14 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-132 0-4'

Project: Prometheus

Collection Date: 12/2/2023 10:05:00 AM

Lab ID: 2312259-009

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/8/2023 11:17:41 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2023 11:17:41 AM
Surr: DNOP	102	69-147		%Rec	1	12/8/2023 11:17:41 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2023 1:58:00 AM
Surr: BFB	96.4	15-244		%Rec	1	12/9/2023 1:58:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/9/2023 1:58:00 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2023 1:58:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2023 1:58:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2023 1:58:00 AM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	12/9/2023 1:58:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/8/2023 11:39:38 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-133 0-4'

Project: Prometheus

Collection Date: 12/2/2023 10:10:00 AM

Lab ID: 2312259-010

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2023 11:28:21 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/8/2023 11:28:21 AM
Surr: DNOP	91.3	69-147		%Rec	1	12/8/2023 11:28:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2023 2:20:00 AM
Surr: BFB	99.3	15-244		%Rec	1	12/9/2023 2:20:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/9/2023 2:20:00 AM
Toluene	ND	0.049		mg/Kg	1	12/9/2023 2:20:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2023 2:20:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2023 2:20:00 AM
Surr: 4-Bromofluorobenzene	93.3	39.1-146		%Rec	1	12/9/2023 2:20:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/8/2023 11:52:03 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-134 0-4'

Project: Prometheus

Collection Date: 12/2/2023 10:15:00 AM

Lab ID: 2312259-011

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/8/2023 11:39:00 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/8/2023 11:39:00 AM
Surr: DNOP	89.7	69-147		%Rec	1	12/8/2023 11:39:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/9/2023 3:03:00 AM
Surr: BFB	96.1	15-244		%Rec	1	12/9/2023 3:03:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/9/2023 3:03:00 AM
Toluene	ND	0.046		mg/Kg	1	12/9/2023 3:03:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	12/9/2023 3:03:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	12/9/2023 3:03:00 AM
Surr: 4-Bromofluorobenzene	93.9	39.1-146		%Rec	1	12/9/2023 3:03:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	86	60		mg/Kg	20	12/8/2023 12:04:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312259
Date Reported: 12/18/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-135 0-4'
Project: Prometheus Collection Date: 12/2/2023 10:25:00 AM
Lab ID: 2312259-012 Matrix: SOIL Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/8/2023 11:49:40 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/8/2023 11:49:40 AM
Surr: DNOP	77.2	69-147		%Rec	1	12/8/2023 11:49:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2023 3:24:00 AM
Surr: BFB	102	15-244		%Rec	1	12/9/2023 3:24:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/9/2023 3:24:00 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2023 3:24:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2023 3:24:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	12/9/2023 3:24:00 AM
Surr: 4-Bromofluorobenzene	94.2	39.1-146		%Rec	1	12/9/2023 3:24:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	61	60		mg/Kg	20	12/8/2023 12:41:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-136 0-4'

Project: Prometheus

Collection Date: 12/2/2023 10:30:00 AM

Lab ID: 2312259-013

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2023 12:11:00 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2023 12:11:00 PM
Surr: DNOP	72.1	69-147		%Rec	1	12/8/2023 12:11:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/9/2023 3:46:00 AM
Surr: BFB	98.5	15-244		%Rec	1	12/9/2023 3:46:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/9/2023 3:46:00 AM
Toluene	ND	0.046		mg/Kg	1	12/9/2023 3:46:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	12/9/2023 3:46:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	12/9/2023 3:46:00 AM
Surr: 4-Bromofluorobenzene	93.0	39.1-146		%Rec	1	12/9/2023 3:46:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	79	61		mg/Kg	20	12/8/2023 12:54:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-137 0-4'

Project: Prometheus

Collection Date: 12/2/2023 10:35:00 AM

Lab ID: 2312259-014

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/8/2023 2:28:03 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2023 2:28:03 PM
Surr: DNOP	75.3	69-147		%Rec	1	12/8/2023 2:28:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2023 4:07:00 AM
Surr: BFB	100	15-244		%Rec	1	12/9/2023 4:07:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/9/2023 4:07:00 AM
Toluene	ND	0.049		mg/Kg	1	12/9/2023 4:07:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2023 4:07:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2023 4:07:00 AM
Surr: 4-Bromofluorobenzene	92.8	39.1-146		%Rec	1	12/9/2023 4:07:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	59		mg/Kg	20	12/8/2023 1:06:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-138 0-4'

Project: Prometheus

Collection Date: 12/2/2023 10:40:00 AM

Lab ID: 2312259-015

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/8/2023 2:38:49 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2023 2:38:49 PM
Surr: DNOP	73.8	69-147		%Rec	1	12/8/2023 2:38:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/9/2023 4:29:00 AM
Surr: BFB	103	15-244		%Rec	1	12/9/2023 4:29:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/9/2023 4:29:00 AM
Toluene	ND	0.047		mg/Kg	1	12/9/2023 4:29:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/9/2023 4:29:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	12/9/2023 4:29:00 AM
Surr: 4-Bromofluorobenzene	94.3	39.1-146		%Rec	1	12/9/2023 4:29:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/8/2023 1:18:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-139 0-4'

Project: Prometheus

Collection Date: 12/2/2023 8:30:00 AM

Lab ID: 2312259-016

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/8/2023 2:49:36 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2023 2:49:36 PM
Surr: DNOP	74.6	69-147		%Rec	1	12/8/2023 2:49:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/9/2023 4:50:00 AM
Surr: BFB	98.1	15-244		%Rec	1	12/9/2023 4:50:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/9/2023 4:50:00 AM
Toluene	ND	0.047		mg/Kg	1	12/9/2023 4:50:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/9/2023 4:50:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	12/9/2023 4:50:00 AM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	12/9/2023 4:50:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/8/2023 1:31:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-140 0-4'

Project: Prometheus

Collection Date: 12/2/2023 8:35:00 AM

Lab ID: 2312259-017

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/8/2023 3:00:23 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2023 3:00:23 PM
Surr: DNOP	75.0	69-147		%Rec	1	12/8/2023 3:00:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/9/2023 5:12:00 AM
Surr: BFB	97.4	15-244		%Rec	1	12/9/2023 5:12:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/9/2023 5:12:00 AM
Toluene	ND	0.046		mg/Kg	1	12/9/2023 5:12:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	12/9/2023 5:12:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	12/9/2023 5:12:00 AM
Surr: 4-Bromofluorobenzene	93.2	39.1-146		%Rec	1	12/9/2023 5:12:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	140	60		mg/Kg	20	12/8/2023 1:43:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312259
Date Reported: 12/18/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-141 0-4'
Project: Prometheus Collection Date: 12/2/2023 8:40:00 AM
Lab ID: 2312259-018 Matrix: SOIL Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2023 3:11:11 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2023 3:11:11 PM
Surr: DNOP	74.0	69-147		%Rec	1	12/8/2023 3:11:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2023 5:34:00 AM
Surr: BFB	98.6	15-244		%Rec	1	12/9/2023 5:34:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/9/2023 5:34:00 AM
Toluene	ND	0.049		mg/Kg	1	12/9/2023 5:34:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2023 5:34:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2023 5:34:00 AM
Surr: 4-Bromofluorobenzene	94.2	39.1-146		%Rec	1	12/9/2023 5:34:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/8/2023 1:56:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-142 0-4'

Project: Prometheus

Collection Date: 12/2/2023 8:45:00 AM

Lab ID: 2312259-019

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/8/2023 3:22:07 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2023 3:22:07 PM
Surr: DNOP	75.0	69-147		%Rec	1	12/8/2023 3:22:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2023 5:55:00 AM
Surr: BFB	97.8	15-244		%Rec	1	12/9/2023 5:55:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/9/2023 5:55:00 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2023 5:55:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2023 5:55:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	12/9/2023 5:55:00 AM
Surr: 4-Bromofluorobenzene	94.4	39.1-146		%Rec	1	12/9/2023 5:55:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	89	60		mg/Kg	20	12/8/2023 5:44:14 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-143 0-4'

Project: Prometheus

Collection Date: 12/2/2023 9:05:00 AM

Lab ID: 2312259-020

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/8/2023 3:33:02 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2023 3:33:02 PM
Surr: DNOP	71.1	69-147		%Rec	1	12/8/2023 3:33:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2023 6:17:00 AM
Surr: BFB	96.5	15-244		%Rec	1	12/9/2023 6:17:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/9/2023 6:17:00 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2023 6:17:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2023 6:17:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	12/9/2023 6:17:00 AM
Surr: 4-Bromofluorobenzene	93.0	39.1-146		%Rec	1	12/9/2023 6:17:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	64	60		mg/Kg	20	12/8/2023 6:29:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-144 0-4'

Project: Prometheus

Collection Date: 12/2/2023 9:10:00 AM

Lab ID: 2312259-021

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/8/2023 7:50:21 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/8/2023 7:50:21 PM
Surr: DNOP	85.5	69-147		%Rec	1	12/8/2023 7:50:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2023 10:17:33 PM
Surr: BFB	94.7	15-244		%Rec	1	12/8/2023 10:17:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/8/2023 10:17:33 PM
Toluene	ND	0.048		mg/Kg	1	12/8/2023 10:17:33 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2023 10:17:33 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/8/2023 10:17:33 PM
Surr: 4-Bromofluorobenzene	95.2	39.1-146		%Rec	1	12/8/2023 10:17:33 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	90	60		mg/Kg	20	12/8/2023 7:17:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-145 0-4'

Project: Prometheus

Collection Date: 12/2/2023 9:15:00 AM

Lab ID: 2312259-022

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/8/2023 8:22:12 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/8/2023 8:22:12 PM
Surr: DNOP	81.6	69-147		%Rec	1	12/8/2023 8:22:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/8/2023 11:27:12 PM
Surr: BFB	95.1	15-244		%Rec	1	12/8/2023 11:27:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/8/2023 11:27:12 PM
Toluene	ND	0.047		mg/Kg	1	12/8/2023 11:27:12 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/8/2023 11:27:12 PM
Xylenes, Total	ND	0.094		mg/Kg	1	12/8/2023 11:27:12 PM
Surr: 4-Bromofluorobenzene	96.9	39.1-146		%Rec	1	12/8/2023 11:27:12 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/8/2023 7:32:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-146 0-4'

Project: Prometheus

Collection Date: 12/2/2023 9:20:00 AM

Lab ID: 2312259-023

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/8/2023 8:32:50 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2023 8:32:50 PM
Surr: DNOP	83.6	69-147		%Rec	1	12/8/2023 8:32:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/9/2023 12:36:37 AM
Surr: BFB	90.4	15-244		%Rec	1	12/9/2023 12:36:37 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	12/9/2023 12:36:37 AM
Toluene	ND	0.046		mg/Kg	1	12/9/2023 12:36:37 AM
Ethylbenzene	ND	0.046		mg/Kg	1	12/9/2023 12:36:37 AM
Xylenes, Total	ND	0.093		mg/Kg	1	12/9/2023 12:36:37 AM
Surr: 4-Bromofluorobenzene	92.4	39.1-146		%Rec	1	12/9/2023 12:36:37 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/8/2023 7:48:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-147 0-4'

Project: Prometheus

Collection Date: 12/2/2023 9:25:00 AM

Lab ID: 2312259-024

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	12/8/2023 8:43:26 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	12/8/2023 8:43:26 PM
Surr: DNOP	85.4	69-147		%Rec	1	12/8/2023 8:43:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2023 12:59:44 AM
Surr: BFB	92.4	15-244		%Rec	1	12/9/2023 12:59:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/9/2023 12:59:44 AM
Toluene	ND	0.049		mg/Kg	1	12/9/2023 12:59:44 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2023 12:59:44 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2023 12:59:44 AM
Surr: 4-Bromofluorobenzene	94.8	39.1-146		%Rec	1	12/9/2023 12:59:44 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	67	60		mg/Kg	20	12/8/2023 8:48:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-148 0-4'

Project: Prometheus

Collection Date: 12/2/2023 9:30:00 AM

Lab ID: 2312259-025

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/8/2023 8:54:01 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/8/2023 8:54:01 PM
Surr: DNOP	83.0	69-147		%Rec	1	12/8/2023 8:54:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2023 1:22:54 AM
Surr: BFB	90.8	15-244		%Rec	1	12/9/2023 1:22:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/9/2023 1:22:54 AM
Toluene	ND	0.050		mg/Kg	1	12/9/2023 1:22:54 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2023 1:22:54 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/9/2023 1:22:54 AM
Surr: 4-Bromofluorobenzene	93.6	39.1-146		%Rec	1	12/9/2023 1:22:54 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	59		mg/Kg	20	12/8/2023 9:03:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2312259-026

Matrix: SOIL

Client Sample ID: WS23-149 0-4'
Collection Date: 12/2/2023 9:35:00 AM
Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/8/2023 9:04:36 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/8/2023 9:04:36 PM
Surr: DNOP	85.8	69-147		%Rec	1	12/8/2023 9:04:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2023 1:46:04 AM
Surr: BFB	90.3	15-244		%Rec	1	12/9/2023 1:46:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/9/2023 1:46:04 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2023 1:46:04 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2023 1:46:04 AM
Xylenes, Total	ND	0.096		mg/Kg	1	12/9/2023 1:46:04 AM
Surr: 4-Bromofluorobenzene	93.0	39.1-146		%Rec	1	12/9/2023 1:46:04 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/8/2023 9:19:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-150 0-4'

Project: Prometheus

Collection Date: 12/2/2023 9:40:00 AM

Lab ID: 2312259-027

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/8/2023 9:15:09 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/8/2023 9:15:09 PM
Surr: DNOP	77.9	69-147		%Rec	1	12/8/2023 9:15:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/9/2023 2:09:13 AM
Surr: BFB	89.6	15-244		%Rec	1	12/9/2023 2:09:13 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/9/2023 2:09:13 AM
Toluene	ND	0.047		mg/Kg	1	12/9/2023 2:09:13 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/9/2023 2:09:13 AM
Xylenes, Total	ND	0.095		mg/Kg	1	12/9/2023 2:09:13 AM
Surr: 4-Bromofluorobenzene	92.2	39.1-146		%Rec	1	12/9/2023 2:09:13 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/8/2023 9:34:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2312259-028

Client Sample ID: BS23-130 4'
Collection Date: 12/2/2023 12:00:00 PM
Received Date: 12/6/2023 7:45:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/8/2023 9:25:41 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/8/2023 9:25:41 PM
Surr: DNOP	86.8	69-147		%Rec	1	12/8/2023 9:25:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2023 2:32:19 AM
Surr: BFB	91.7	15-244		%Rec	1	12/9/2023 2:32:19 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/9/2023 2:32:19 AM
Toluene	ND	0.049		mg/Kg	1	12/9/2023 2:32:19 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2023 2:32:19 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2023 2:32:19 AM
Surr: 4-Bromofluorobenzene	95.2	39.1-146		%Rec	1	12/9/2023 2:32:19 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1900	60		mg/Kg	20	12/8/2023 9:49:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-131 4'

Project: Prometheus

Collection Date: 12/2/2023 12:05:00 PM

Lab ID: 2312259-029

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/8/2023 9:46:32 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/8/2023 9:46:32 PM
Surr: DNOP	77.8	69-147		%Rec	1	12/8/2023 9:46:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2023 2:55:24 AM
Surr: BFB	89.4	15-244		%Rec	1	12/9/2023 2:55:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/9/2023 2:55:24 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2023 2:55:24 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2023 2:55:24 AM
Xylenes, Total	ND	0.096		mg/Kg	1	12/9/2023 2:55:24 AM
Surr: 4-Bromofluorobenzene	92.9	39.1-146		%Rec	1	12/9/2023 2:55:24 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2500	150		mg/Kg	50	12/11/2023 10:18:07 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-132 4'

Project: Prometheus

Collection Date: 12/2/2023 12:10:00 PM

Lab ID: 2312259-030

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/8/2023 9:57:01 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2023 9:57:01 PM
Surr: DNOP	82.8	69-147		%Rec	1	12/8/2023 9:57:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2023 3:18:28 AM
Surr: BFB	89.9	15-244		%Rec	1	12/9/2023 3:18:28 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/9/2023 3:18:28 AM
Toluene	ND	0.049		mg/Kg	1	12/9/2023 3:18:28 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2023 3:18:28 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2023 3:18:28 AM
Surr: 4-Bromofluorobenzene	93.8	39.1-146		%Rec	1	12/9/2023 3:18:28 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1600	60		mg/Kg	20	12/8/2023 10:19:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-133 4'

Project: Prometheus

Collection Date: 12/2/2023 12:15:00 PM

Lab ID: 2312259-031

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/8/2023 10:07:30 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/8/2023 10:07:30 PM
Surr: DNOP	85.9	69-147		%Rec	1	12/8/2023 10:07:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/9/2023 4:04:35 AM
Surr: BFB	89.8	15-244		%Rec	1	12/9/2023 4:04:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/9/2023 4:04:35 AM
Toluene	ND	0.047		mg/Kg	1	12/9/2023 4:04:35 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/9/2023 4:04:35 AM
Xylenes, Total	ND	0.094		mg/Kg	1	12/9/2023 4:04:35 AM
Surr: 4-Bromofluorobenzene	93.8	39.1-146		%Rec	1	12/9/2023 4:04:35 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2900	150		mg/Kg	50	12/11/2023 10:33:16 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-134 4'

Project: Prometheus

Collection Date: 12/2/2023 12:20:00 PM

Lab ID: 2312259-032

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/8/2023 10:17:57 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/8/2023 10:17:57 PM
Surr: DNOP	70.5	69-147		%Rec	1	12/8/2023 10:17:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2023 4:27:41 AM
Surr: BFB	89.9	15-244		%Rec	1	12/9/2023 4:27:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/9/2023 4:27:41 AM
Toluene	ND	0.049		mg/Kg	1	12/9/2023 4:27:41 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2023 4:27:41 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2023 4:27:41 AM
Surr: 4-Bromofluorobenzene	94.0	39.1-146		%Rec	1	12/9/2023 4:27:41 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	4400	150		mg/Kg	50	12/12/2023 4:30:35 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-135 4'

Project: Prometheus

Collection Date: 12/2/2023 12:25:00 PM

Lab ID: 2312259-033

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/11/2023 11:52:08 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/11/2023 11:52:08 AM
Surr: DNOP	95.0	69-147		%Rec	1	12/11/2023 11:52:08 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2023 4:50:42 AM
Surr: BFB	90.5	15-244		%Rec	1	12/9/2023 4:50:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/9/2023 4:50:42 AM
Toluene	ND	0.049		mg/Kg	1	12/9/2023 4:50:42 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2023 4:50:42 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2023 4:50:42 AM
Surr: 4-Bromofluorobenzene	95.0	39.1-146		%Rec	1	12/9/2023 4:50:42 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2300	150		mg/Kg	50	12/12/2023 5:07:49 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-136 4'

Project: Prometheus

Collection Date: 12/2/2023 12:30:00 PM

Lab ID: 2312259-034

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/8/2023 10:38:48 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2023 10:38:48 PM
Surr: DNOP	82.7	69-147		%Rec	1	12/8/2023 10:38:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2023 5:13:43 AM
Surr: BFB	91.7	15-244		%Rec	1	12/9/2023 5:13:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/9/2023 5:13:43 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2023 5:13:43 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2023 5:13:43 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2023 5:13:43 AM
Surr: 4-Bromofluorobenzene	95.9	39.1-146		%Rec	1	12/9/2023 5:13:43 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2000	60		mg/Kg	20	12/8/2023 3:23:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312259
Date Reported: 12/18/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-137 4'
Project: Prometheus Collection Date: 12/2/2023 2:10:00 PM
Lab ID: 2312259-035 Matrix: SOIL Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/11/2023 12:15:49 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/11/2023 12:15:49 PM
Surr: DNOP	95.1	69-147		%Rec	1	12/11/2023 12:15:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2023 5:36:46 AM
Surr: BFB	88.9	15-244		%Rec	1	12/9/2023 5:36:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/9/2023 5:36:46 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2023 5:36:46 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2023 5:36:46 AM
Xylenes, Total	ND	0.096		mg/Kg	1	12/9/2023 5:36:46 AM
Surr: 4-Bromofluorobenzene	93.7	39.1-146		%Rec	1	12/9/2023 5:36:46 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/8/2023 3:35:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-138 4'

Project: Prometheus

Collection Date: 12/2/2023 2:05:00 PM

Lab ID: 2312259-036

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/8/2023 10:59:35 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2023 10:59:35 PM
Surr: DNOP	78.7	69-147		%Rec	1	12/8/2023 10:59:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2023 5:59:44 AM
Surr: BFB	98.1	15-244		%Rec	1	12/9/2023 5:59:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/9/2023 5:59:44 AM
Toluene	ND	0.049		mg/Kg	1	12/9/2023 5:59:44 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2023 5:59:44 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2023 5:59:44 AM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	12/9/2023 5:59:44 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	240	60		mg/Kg	20	12/8/2023 3:47:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-139 4'

Project: Prometheus

Collection Date: 12/2/2023 1:55:00 PM

Lab ID: 2312259-037

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/8/2023 11:09:57 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2023 11:09:57 PM
Surr: DNOP	84.4	69-147		%Rec	1	12/8/2023 11:09:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2023 6:22:44 AM
Surr: BFB	87.6	15-244		%Rec	1	12/9/2023 6:22:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/9/2023 6:22:44 AM
Toluene	ND	0.049		mg/Kg	1	12/9/2023 6:22:44 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2023 6:22:44 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2023 6:22:44 AM
Surr: 4-Bromofluorobenzene	93.3	39.1-146		%Rec	1	12/9/2023 6:22:44 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	440	60		mg/Kg	20	12/8/2023 4:00:14 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-140 4'

Project: Prometheus

Collection Date: 12/2/2023 2:00:00 PM

Lab ID: 2312259-038

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/11/2023 12:39:32 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/11/2023 12:39:32 PM
Surr: DNOP	83.3	69-147		%Rec	1	12/11/2023 12:39:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2023 6:45:42 AM
Surr: BFB	86.8	15-244		%Rec	1	12/9/2023 6:45:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/9/2023 6:45:42 AM
Toluene	ND	0.050		mg/Kg	1	12/9/2023 6:45:42 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2023 6:45:42 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/9/2023 6:45:42 AM
Surr: 4-Bromofluorobenzene	92.6	39.1-146		%Rec	1	12/9/2023 6:45:42 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	560	60		mg/Kg	20	12/8/2023 4:12:39 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 38 of 60
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of standard limits. If undiluted results may be estimated.			

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2312259-039

Client Sample ID: BS23-141 4'
Collection Date: 12/2/2023 1:50:00 PM
Received Date: 12/6/2023 7:45:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/8/2023 11:30:38 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/8/2023 11:30:38 PM
Surr: DNOP	75.0	69-147		%Rec	1	12/8/2023 11:30:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/9/2023 7:08:42 AM
Surr: BFB	85.6	15-244		%Rec	1	12/9/2023 7:08:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	12/9/2023 7:08:42 AM
Toluene	ND	0.046		mg/Kg	1	12/9/2023 7:08:42 AM
Ethylbenzene	ND	0.046		mg/Kg	1	12/9/2023 7:08:42 AM
Xylenes, Total	ND	0.092		mg/Kg	1	12/9/2023 7:08:42 AM
Surr: 4-Bromofluorobenzene	91.3	39.1-146		%Rec	1	12/9/2023 7:08:42 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1500	60		mg/Kg	20	12/8/2023 4:25:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-142 4'

Project: Prometheus

Collection Date: 12/2/2023 1:40:00 PM

Lab ID: 2312259-040

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/8/2023 11:40:57 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2023 11:40:57 PM
Surr: DNOP	71.0	69-147		%Rec	1	12/8/2023 11:40:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2023 7:31:43 AM
Surr: BFB	87.7	15-244		%Rec	1	12/9/2023 7:31:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/9/2023 7:31:43 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2023 7:31:43 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2023 7:31:43 AM
Xylenes, Total	ND	0.096		mg/Kg	1	12/9/2023 7:31:43 AM
Surr: 4-Bromofluorobenzene	92.8	39.1-146		%Rec	1	12/9/2023 7:31:43 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2000	60		mg/Kg	20	12/8/2023 5:02:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-143 4'

Project: Prometheus

Collection Date: 12/2/2023 1:30:00 PM

Lab ID: 2312259-041

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/8/2023 11:43:43 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/8/2023 11:43:43 PM
Surr: DNOP	83.1	69-147		%Rec	1	12/8/2023 11:43:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/8/2023 3:29:00 PM
Surr: BFB	103	15-244		%Rec	1	12/8/2023 3:29:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/8/2023 3:29:00 PM
Toluene	ND	0.047		mg/Kg	1	12/8/2023 3:29:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/8/2023 3:29:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	12/8/2023 3:29:00 PM
Surr: 4-Bromofluorobenzene	96.6	39.1-146		%Rec	1	12/8/2023 3:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	960	60		mg/Kg	20	12/8/2023 6:04:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-144 4'

Project: Prometheus

Collection Date: 12/2/2023 1:25:00 PM

Lab ID: 2312259-042

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/9/2023 12:30:20 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2023 12:30:20 AM
Surr: DNOP	94.8	69-147		%Rec	1	12/9/2023 12:30:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2023 3:51:00 PM
Surr: BFB	102	15-244		%Rec	1	12/8/2023 3:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/8/2023 3:51:00 PM
Toluene	ND	0.049		mg/Kg	1	12/8/2023 3:51:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2023 3:51:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/8/2023 3:51:00 PM
Surr: 4-Bromofluorobenzene	94.8	39.1-146		%Rec	1	12/8/2023 3:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	5700	300		mg/Kg	100	12/12/2023 5:20:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2312259-043

Client Sample ID: BS23-145 4'
Collection Date: 12/2/2023 1:20:00 PM
Received Date: 12/6/2023 7:45:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/9/2023 12:53:41 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2023 12:53:41 AM
Surr: DNOP	101	69-147		%Rec	1	12/9/2023 12:53:41 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2023 4:13:00 PM
Surr: BFB	101	15-244		%Rec	1	12/8/2023 4:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/8/2023 4:13:00 PM
Toluene	ND	0.048		mg/Kg	1	12/8/2023 4:13:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2023 4:13:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/8/2023 4:13:00 PM
Surr: 4-Bromofluorobenzene	95.9	39.1-146		%Rec	1	12/8/2023 4:13:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2500	150		mg/Kg	50	12/12/2023 5:32:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-146 4'

Project: Prometheus

Collection Date: 12/2/2023 1:15:00 PM

Lab ID: 2312259-044

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/9/2023 1:16:57 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/9/2023 1:16:57 AM
Surr: DNOP	93.9	69-147		%Rec	1	12/9/2023 1:16:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2023 4:34:00 PM
Surr: BFB	100	15-244		%Rec	1	12/8/2023 4:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/8/2023 4:34:00 PM
Toluene	ND	0.048		mg/Kg	1	12/8/2023 4:34:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2023 4:34:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/8/2023 4:34:00 PM
Surr: 4-Bromofluorobenzene	96.1	39.1-146		%Rec	1	12/8/2023 4:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	6100	300		mg/Kg	100	12/12/2023 5:45:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312259
Date Reported: 12/18/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-147 4'
Project: Prometheus Collection Date: 12/2/2023 1:10:00 PM
Lab ID: 2312259-045 Matrix: SOIL Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/9/2023 1:40:15 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2023 1:40:15 AM
Surr: DNOP	84.5	69-147		%Rec	1	12/9/2023 1:40:15 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2023 4:56:00 PM
Surr: BFB	100	15-244		%Rec	1	12/8/2023 4:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/8/2023 4:56:00 PM
Toluene	ND	0.048		mg/Kg	1	12/8/2023 4:56:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2023 4:56:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/8/2023 4:56:00 PM
Surr: 4-Bromofluorobenzene	95.0	39.1-146		%Rec	1	12/8/2023 4:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2100	60		mg/Kg	20	12/8/2023 6:53:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312259
Date Reported: 12/18/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-148 4'
Project: Prometheus Collection Date: 12/2/2023 1:05:00 PM
Lab ID: 2312259-046 Matrix: SOIL Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/9/2023 2:03:34 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2023 2:03:34 AM
Surr: DNOP	85.2	69-147		%Rec	1	12/9/2023 2:03:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/8/2023 5:18:00 PM
Surr: BFB	102	15-244		%Rec	1	12/8/2023 5:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/8/2023 5:18:00 PM
Toluene	ND	0.046		mg/Kg	1	12/8/2023 5:18:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/8/2023 5:18:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	12/8/2023 5:18:00 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	12/8/2023 5:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	4400	150		mg/Kg	50	12/12/2023 5:57:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-149 4'

Project: Prometheus

Collection Date: 12/2/2023 1:00:00 PM

Lab ID: 2312259-047

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/9/2023 2:26:54 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/9/2023 2:26:54 AM
Surr: DNOP	106	69-147		%Rec	1	12/9/2023 2:26:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2023 6:01:00 PM
Surr: BFB	98.0	15-244		%Rec	1	12/8/2023 6:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/8/2023 6:01:00 PM
Toluene	ND	0.048		mg/Kg	1	12/8/2023 6:01:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2023 6:01:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/8/2023 6:01:00 PM
Surr: 4-Bromofluorobenzene	96.8	39.1-146		%Rec	1	12/8/2023 6:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	4700	150		mg/Kg	50	12/12/2023 6:09:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-150 4'

Project: Prometheus

Collection Date: 12/2/2023 12:55:00 PM

Lab ID: 2312259-048

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/9/2023 2:50:16 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2023 2:50:16 AM
Surr: DNOP	93.5	69-147		%Rec	1	12/9/2023 2:50:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2023 6:23:00 PM
Surr: BFB	99.2	15-244		%Rec	1	12/8/2023 6:23:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/8/2023 6:23:00 PM
Toluene	ND	0.048		mg/Kg	1	12/8/2023 6:23:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2023 6:23:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/8/2023 6:23:00 PM
Surr: 4-Bromofluorobenzene	96.3	39.1-146		%Rec	1	12/8/2023 6:23:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	6900	300		mg/Kg	100	12/12/2023 6:22:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312259

Date Reported: 12/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-151 4'

Project: Prometheus

Collection Date: 12/2/2023 12:45:00 PM

Lab ID: 2312259-049

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/9/2023 3:13:36 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2023 3:13:36 AM
Surr: DNOP	113	69-147		%Rec	1	12/9/2023 3:13:36 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2023 6:45:00 PM
Surr: BFB	102	15-244		%Rec	1	12/8/2023 6:45:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/8/2023 6:45:00 PM
Toluene	ND	0.049		mg/Kg	1	12/8/2023 6:45:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2023 6:45:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/8/2023 6:45:00 PM
Surr: 4-Bromofluorobenzene	97.0	39.1-146		%Rec	1	12/8/2023 6:45:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	5700	300		mg/Kg	100	12/12/2023 6:34:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2312259-050

Client Sample ID: BS23-152 4'
Collection Date: 12/2/2023 12:40:00 PM
Received Date: 12/6/2023 7:45:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/9/2023 3:36:52 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2023 3:36:52 AM
Surr: DNOP	102	69-147		%Rec	1	12/9/2023 3:36:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/8/2023 7:07:00 PM
Surr: BFB	101	15-244		%Rec	1	12/8/2023 7:07:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/8/2023 7:07:00 PM
Toluene	ND	0.047		mg/Kg	1	12/8/2023 7:07:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/8/2023 7:07:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/8/2023 7:07:00 PM
Surr: 4-Bromofluorobenzene	97.4	39.1-146		%Rec	1	12/8/2023 7:07:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1600	60		mg/Kg	20	12/8/2023 8:20:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312259
Date Reported: 12/18/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-153 4'
Project: Prometheus Collection Date: 12/2/2023 12:35:00 PM
Lab ID: 2312259-051 Matrix: SOIL Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/9/2023 4:00:08 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2023 4:00:08 AM
Surr: DNOP	102	69-147		%Rec	1	12/9/2023 4:00:08 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2023 9:21:00 PM
Surr: BFB	204	15-244		%Rec	1	12/9/2023 9:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/9/2023 9:21:00 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2023 9:21:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2023 9:21:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2023 9:21:00 PM
Surr: 4-Bromofluorobenzene	197	39.1-146	S	%Rec	1	12/9/2023 9:21:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	3300	150		mg/Kg	50	12/12/2023 6:47:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312259

18-Dec-23

Client: Vertex Resources Services, Inc.**Project:** Prometheus

Sample ID: LCS-79248	SampType: LCS			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 79248			RunNo: 101711						
Prep Date: 12/8/2023	Analysis Date: 12/8/2023			SeqNo: 3747629		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

Sample ID: MB-79248	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 79248			RunNo: 101711						
Prep Date: 12/8/2023	Analysis Date: 12/8/2023			SeqNo: 3747630		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: MB-79232	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 79232			RunNo: 101713						
Prep Date: 12/7/2023	Analysis Date: 12/8/2023			SeqNo: 3749594		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79232	SampType: LCS			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 79232			RunNo: 101713						
Prep Date: 12/7/2023	Analysis Date: 12/8/2023			SeqNo: 3749595		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	90	110			

Sample ID: MB-79253	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 79253			RunNo: 101713						
Prep Date: 12/8/2023	Analysis Date: 12/8/2023			SeqNo: 3749624		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79253	SampType: LCS			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 79253			RunNo: 101713						
Prep Date: 12/8/2023	Analysis Date: 12/8/2023			SeqNo: 3749625		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312259

18-Dec-23

Client: Vertex Resources Services, Inc.**Project:** Prometheus

Sample ID: LCS-79197	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 79197		RunNo: 101694							
Prep Date: 12/6/2023	Analysis Date: 12/7/2023		SeqNo: 3746979		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.4	61.9	130			
Surr: DNOP	4.2		5.000		84.5	69	147			

Sample ID: MB-79197	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 79197		RunNo: 101694							
Prep Date: 12/6/2023	Analysis Date: 12/7/2023		SeqNo: 3746981		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.8	69	147			

Sample ID: MB-79225	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 79225		RunNo: 101708							
Prep Date: 12/7/2023	Analysis Date: 12/8/2023		SeqNo: 3748668		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.8	69	147			

Sample ID: LCS-79225	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 79225		RunNo: 101708							
Prep Date: 12/7/2023	Analysis Date: 12/8/2023		SeqNo: 3748669		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	61.9	130			
Surr: DNOP	4.7		5.000		94.5	69	147			

Sample ID: 2312259-021AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: WS23-144 0-4'	Batch ID: 79224		RunNo: 101710							
Prep Date: 12/7/2023	Analysis Date: 12/8/2023		SeqNo: 3749065		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.4	47.13	0	88.2	54.2	135			
Surr: DNOP	4.0		4.713		85.2	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312259

18-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2312259-021AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-144 0-4'	Batch ID: 79224	RunNo: 101710								
Prep Date: 12/7/2023	Analysis Date: 12/8/2023	SeqNo: 3749066 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.4	46.95	0	97.5	54.2	135	9.59	29.2	
Surr: DNOP	4.4		4.695		94.4	69	147	0	0	

Sample ID: LCS-79224	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79224	RunNo: 101710								
Prep Date: 12/7/2023	Analysis Date: 12/8/2023	SeqNo: 3749105 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.4	61.9	130			
Surr: DNOP	4.0		5.000		80.0	69	147			

Sample ID: MB-79224	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79224	RunNo: 101710								
Prep Date: 12/7/2023	Analysis Date: 12/8/2023	SeqNo: 3749106 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.8		10.00		78.3	69	147			

Sample ID: 2312259-020AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-143 0-4'	Batch ID: 79197	RunNo: 101710								
Prep Date: 12/6/2023	Analysis Date: 12/8/2023	SeqNo: 3749141 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	49.75	0	75.1	54.2	135			
Surr: DNOP	3.7		4.975		75.0	69	147			

Sample ID: 2312259-020AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-143 0-4'	Batch ID: 79197	RunNo: 101710								
Prep Date: 12/6/2023	Analysis Date: 12/8/2023	SeqNo: 3749142 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.7	48.40	0	75.4	54.2	135	2.40	29.2	
Surr: DNOP	3.7		4.840		77.1	69	147	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312259

18-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: ics-79208	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 79208				RunNo: 101720					
Prep Date: 12/7/2023	Analysis Date: 12/8/2023				SeqNo: 3747961	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	70	130			
Surr: BFB	2300		1000		228	15	244			

Sample ID: mb-79208	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 79208				RunNo: 101720					
Prep Date: 12/7/2023	Analysis Date: 12/8/2023				SeqNo: 3747962	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	15	244			

Sample ID: ics-79192	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 79192				RunNo: 101720					
Prep Date: 12/6/2023	Analysis Date: 12/8/2023				SeqNo: 3747985	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.0	70	130			
Surr: BFB	2100		1000		209	15	244			

Sample ID: mb-79192	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 79192				RunNo: 101720					
Prep Date: 12/6/2023	Analysis Date: 12/8/2023				SeqNo: 3747986	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	15	244			

Sample ID: 2312259-001ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: WS23-88 0-4'	Batch ID: 79192				RunNo: 101720					
Prep Date: 12/6/2023	Analysis Date: 12/8/2023				SeqNo: 3747988	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.8	23.90	0	85.5	70	130			
Surr: BFB	2100		956.0		221	15	244			

Sample ID: 2312259-001amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: WS23-88 0-4'	Batch ID: 79192				RunNo: 101720					
Prep Date: 12/6/2023	Analysis Date: 12/8/2023				SeqNo: 3747989	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.8	23.90	0	85.5	70	130			
Surr: BFB	2100		956.0		221	15	244			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312259

18-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2312259-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range
Client ID: WS23-88 0-4'	Batch ID: 79192	RunNo: 101720
Prep Date: 12/6/2023	Analysis Date: 12/8/2023	SeqNo: 3747989 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	19	4.8 23.95 0 79.2 70 130 7.39 20
Surr: BFB	2000	957.9 212 15 244 0 0

Sample ID: lcs-79218	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 79218	RunNo: 101726
Prep Date: 12/7/2023	Analysis Date: 12/9/2023	SeqNo: 3748210 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	25	5.0 25.00 0 99.8 70 130
Surr: BFB	2100	1000 211 15 244

Sample ID: mb-79218	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 79218	RunNo: 101726
Prep Date: 12/7/2023	Analysis Date: 12/9/2023	SeqNo: 3748211 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND	5.0
Surr: BFB	1000	1000 102 15 244

Sample ID: 2312259-051ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: BS23-153 4'	Batch ID: 79218	RunNo: 101726
Prep Date: 12/7/2023	Analysis Date: 12/9/2023	SeqNo: 3748213 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	25	4.9 24.27 0 101 70 130
Surr: BFB	2200	970.9 222 15 244

Sample ID: 2312259-051amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range
Client ID: BS23-153 4'	Batch ID: 79218	RunNo: 101726
Prep Date: 12/7/2023	Analysis Date: 12/9/2023	SeqNo: 3748214 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	24	4.8 24.22 0 99.0 70 130 2.11 20
Surr: BFB	2100	969.0 218 15 244 0 0

Sample ID: 2312259-021ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: WS23-144 0-4'	Batch ID: 79198	RunNo: 101707
Prep Date: 12/6/2023	Analysis Date: 12/8/2023	SeqNo: 3748602 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312259

18-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2312259-021ams		SampType: MS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: WS23-144 0-4'		Batch ID: 79198			RunNo: 101707					
Prep Date: 12/6/2023		Analysis Date: 12/8/2023			SeqNo: 3748602		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.79	0	102	70	130			
Surr: BFB	1900		951.5		205	15	244			

Sample ID: 2312259-021amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: WS23-144 0-4'		Batch ID: 79198			RunNo: 101707					
Prep Date: 12/6/2023		Analysis Date: 12/8/2023			SeqNo: 3748603		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	23.81	0	103	70	130	1.23	20	
Surr: BFB	2000		952.4		205	15	244	0	0	

Sample ID: lcs-79198		SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS		Batch ID: 79198			RunNo: 101707					
Prep Date: 12/6/2023		Analysis Date: 12/8/2023			SeqNo: 3748648		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.7	70	130			
Surr: BFB	2000		1000		200	15	244			

Sample ID: mb-79198		SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS		Batch ID: 79198			RunNo: 101707					
Prep Date: 12/6/2023		Analysis Date: 12/8/2023			SeqNo: 3748650		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.3	15	244			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312259

18-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: ics-79208	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 79208			RunNo: 101720						
Prep Date: 12/7/2023	Analysis Date: 12/8/2023			SeqNo: 3748014		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.4	70	130			
Toluene	0.88	0.050	1.000	0	88.2	70	130			
Ethylbenzene	0.90	0.050	1.000	0	89.6	70	130			
Xylenes, Total	2.7	0.10	3.000	0	90.1	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	39.1	146			

Sample ID: mb-79208	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 79208			RunNo: 101720						
Prep Date: 12/7/2023	Analysis Date: 12/8/2023			SeqNo: 3748015		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.6	39.1	146			

Sample ID: ics-79192	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 79192			RunNo: 101720						
Prep Date: 12/6/2023	Analysis Date: 12/8/2023			SeqNo: 3748029		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	70	130			
Toluene	0.91	0.050	1.000	0	90.9	70	130			
Ethylbenzene	0.92	0.050	1.000	0	92.5	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.8	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.3	39.1	146			

Sample ID: mb-79192	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 79192			RunNo: 101720						
Prep Date: 12/6/2023	Analysis Date: 12/8/2023			SeqNo: 3748030		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.7	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312259

18-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2312259-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-89 0-4'	Batch ID: 79192		RunNo: 101720							
Prep Date: 12/6/2023	Analysis Date: 12/8/2023		SeqNo: 3748033		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9671	0	92.0	70	130			
Toluene	0.90	0.048	0.9671	0	93.5	70	130			
Ethylbenzene	0.92	0.048	0.9671	0	94.6	70	130			
Xylenes, Total	2.7	0.097	2.901	0	94.5	70	130			
Surr: 4-Bromofluorobenzene	0.93		0.9671		96.6	39.1	146			

Sample ID: 2312259-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-89 0-4'	Batch ID: 79192		RunNo: 101720							
Prep Date: 12/6/2023	Analysis Date: 12/8/2023		SeqNo: 3748034		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9709	0	91.3	70	130	0.419	20	
Toluene	0.89	0.049	0.9709	0	92.0	70	130	1.21	20	
Ethylbenzene	0.92	0.049	0.9709	0	94.4	70	130	0.126	20	
Xylenes, Total	2.7	0.097	2.913	0	94.4	70	130	0.282	20	
Surr: 4-Bromofluorobenzene	0.93		0.9709		95.4	39.1	146	0	0	

Sample ID: lcs-79218	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 79218		RunNo: 101726							
Prep Date: 12/7/2023	Analysis Date: 12/9/2023		SeqNo: 3748264		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.6	70	130			
Toluene	0.91	0.050	1.000	0	90.9	70	130			
Ethylbenzene	0.92	0.050	1.000	0	91.8	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.0	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.7	39.1	146			

Sample ID: mb-79218	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 79218		RunNo: 101726							
Prep Date: 12/7/2023	Analysis Date: 12/9/2023		SeqNo: 3748265		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.4	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312259

18-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-79198	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 79198		RunNo: 101707							
Prep Date: 12/6/2023	Analysis Date: 12/8/2023		SeqNo: 3748699		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.0	70	130			
Toluene	0.94	0.050	1.000	0	93.8	70	130			
Ethylbenzene	0.94	0.050	1.000	0	94.3	70	130			
Xylenes, Total	2.8	0.10	3.000	0	94.5	70	130			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	39.1	146			

Sample ID: mb-79198	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 79198		RunNo: 101707							
Prep Date: 12/6/2023	Analysis Date: 12/8/2023		SeqNo: 3748701		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.0	39.1	146			

Sample ID: 2312259-022ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-145 0-4'	Batch ID: 79198		RunNo: 101707							
Prep Date: 12/6/2023	Analysis Date: 12/8/2023		SeqNo: 3748707		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9452	0	92.0	70	130			
Toluene	0.88	0.047	0.9452	0	93.0	70	130			
Ethylbenzene	0.89	0.047	0.9452	0	94.1	70	130			
Xylenes, Total	2.7	0.095	2.836	0	94.0	70	130			
Surr: 4-Bromofluorobenzene	0.92		0.9452		97.3	39.1	146			

Sample ID: 2312259-022amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-145 0-4'	Batch ID: 79198		RunNo: 101707							
Prep Date: 12/6/2023	Analysis Date: 12/9/2023		SeqNo: 3748708		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9524	0	92.6	70	130	1.47	20	
Toluene	0.90	0.048	0.9524	0	94.2	70	130	2.04	20	
Ethylbenzene	0.90	0.048	0.9524	0	94.8	70	130	1.51	20	
Xylenes, Total	2.7	0.095	2.857	0	94.9	70	130	1.73	20	
Surr: 4-Bromofluorobenzene	0.93		0.9524		97.2	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2312259

RcptNo: 1

Received By: Tracy Casarrubias

12/6/2023 7:45:00 AM

Completed By: Tracy Casarrubias

12/6/2023 8:48:29 AM

Reviewed By:  12-6-23**Chain of Custody**1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐2. How was the sample delivered? Courier**Log In**3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐5. Sample(s) in proper container(s)? Yes ☒ No ☐6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐13. Is it clear what analyses were requested? Yes ☒ No ☐14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: TM 12/6/23**Special Handling (if applicable)**15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Mailing address and phone number are missing on COC- TMC 12/6/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Yes	Yogi		



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 2312259

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Page 1 of 6

Project Manager:	Michael Marshall	Bill to: (if different):	
Company Name:	Venex	Company Name:	
Address:	on file	Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	MMarshall@venex.co, SCantano@venex.co

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Information		Turn Around		ANALYSIS REQUEST										Preservative Codes				
Project Name:	Promethus	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code													None: NO	DI Water: H ₂ O	
Project Number:	236-03229	Due Date:	72-hr Rush													Cool: Cool	MeOH: Me	
Project Location:	Ace Fluid Solutions	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO ₃ : HN	
Sampler's Name:	L. Pullman															H ₂ SO ₄ : H ₂	NaOH: Na	
PO #:																H ₃ PO ₄ : HP		
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters TPH (GRO, DAG, MAG) BTEX Chloride										NaHSO ₄ : NABIS		
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Thermometer ID:	4091		Na ₂ S ₂ O ₃ : NaSO ₃													
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	-0.2		Zn Acetate+NaOH: Zn													
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	4.8		NaOH+Ascorbic Acid: SAPC													
Total Containers:	1	Corrected Temperature:	4.6															
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont											Sample Comments	
WS23-88 0-4'	Sm'l	12-2-23	11:05	0-4'	Comp	1	X	X	X								001	
WS23-89 0-4'			11:00	0-4'		1											002	
WS23-90 0-4'			10:58	0-4'		1											003	
WS23-92 0-4'			08:50	0-4'		1											004	
WS23-93 0-4'			08:55	0-4'		1											005	
WS23-94 0-4'			09:00	0-4'		1											006	
WS23-95 0-4'			10:50	0-4'		1											007	
WS23-131 0-4'			10:00	0-4'		1											008	
WS23-132 0-4'			10:05	0-4'		1	X	X	X								009	
WS23-133 0-4'			10:10	0-4'		1	X	X	X								010	

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Hg: 1631 / 245.1 / 7470 / 7471

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
12-4-23, 07:00, L. Pullman	[Signature]	12/5/23 07:00	[Signature]	[Signature]	12/6/23 7:45
3					
5					

Revised Date: 08/25/2020 Rev. 2020.2



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 2312259

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Project Manager:	<u>Michael Moffitt</u>	Bill to: (if different)	
Company Name:	<u>Vertex</u>	Company Name:	
Address:	<u>on file</u>	Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	<u>M.Moffitt@vertex.ca, S.Carrigan@vertex.ca</u>

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Turn Around		ANALYSIS REQUEST																Preservative Codes							
Project Number:		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code																		None: NO DI Water: H ₂ O					
Project Location:		Due Date:		TAT starts the day received by the lab, if received by 4:30pm																		Cool: Cool MeOH: Me					
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO ₃ : HN					
PO #:																						H ₂ SO ₄ : H ₂ NaOH: Na					
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																		H ₃ PO ₄ : HP	
Samples Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		4091																		NaHSO ₄ : NABIS			
Cooler Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Correction Factor:		-0.2																		Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		4.8																		Zn Acetate+NaOH: Zn			
Total Containers:		1		Corrected Temperature:		4.6°C																		NaOH+Ascorbic Acid: SAPC			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments			
WS23-134 0-4'		Soil	12-2-23	10:15	0-4'	Comp	1	TPH (CAO, DAO, MAO) RT EX Chloride																2312259			
WS23-135 0-4'				10:25	0-4'		1																	011			
WS23-136 0-4'				10:30	0-4'		1																	012			
WS23-137 0-4'				10:35	0-4'		1																	013			
WS23-138 0-4'				10:40	0-4'		1																	014			
WS23-139 0-4'				08:30	0-4'		1																	015			
WS23-140 0-4'				08:35	0-4'		1																	016			
WS23-141 0-4'				08:40	0-4'		1																	017			
WS23-142 0-4'				08:45	0-4'		1																	018			
WS23-143 0-4'				09:05	0-4'		1																	019			
					0-4'		1																	020			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>12-4-23 07:00 John Pullman</u>	<u>[Signature]</u>	<u>12/5/23 07:00</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>12/6/23 7:45</u>
3			4	<u>Carrigan</u>	
5			6		

Revised Date: 08/25/2020 Rev. 2020.2



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 231259

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Project Manager: <u>MMoffitt Michael Moffitt</u>		Bill to: (if different)	
Company Name: <u>Vertex</u>		Company Name:	
Address: <u>on file</u>		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email: <u>MMoffitt@vertex.co, SCarttar@vertex.co</u>	

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

ANALYSIS REQUEST										Preservative Codes		
Project Name: <u>Promethus</u>	Turn Around									None: NO DI Water: H ₂ O		
Project Number: <u>23E-03329</u>	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush									Cool: Cool MeOH: Me		
Project Location: <u>Age Fluid Solutions</u>	Due Date: <u>12-16-23</u>									HCL: HC HNO ₃ : HN		
Sampler's Name: <u>L. Pullman</u>	TAT starts the day received by the lab, if received by 4:30pm									H ₂ SO ₄ : H ₂ NaOH: Na		
PO #:										H ₃ PO ₄ : HP		
SAMPLE RECEIPT		Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								NaHSO ₄ : NABIS	
Samples Received Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID: <u>4091</u>									Na ₂ S ₂ O ₃ : NaSO ₃	
Cooler Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>		Correction Factor: <u>-0.2</u>									Zn Acetate+NaOH: Zn	
Sample Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>		Temperature Reading: <u>4.8</u>									NaOH+Ascorbic Acid: SAPC	
Total Containers: <u>1</u>		Corrected Temperature: <u>4.6</u>										

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH (G-90, DRD, MRO)	BTEX	Chloride
WS23-144 0-4'	Soil	12-2-23	09:10	0-4'	Comp	1	X	X	X
WS23-145 0-4'	↓	↓	09:15	0-4'	↓	1	↓	↓	↓
WS23-146 0-4'	↓	↓	09:20	0-4'	↓	1	↓	↓	↓
WS23-147 0-4'	↓	↓	09:25	0-4'	↓	1	↓	↓	↓
WS23-148 0-4'	↓	↓	09:30	0-4'	↓	1	↓	↓	↓
WS23-149 0-4'	↓	↓	09:35	0-4'	↓	1	↓	↓	↓
WS23-150 0-4'	↓	↓	09:40	0-4'	↓	1	↓	↓	↓
BS23-130 4'	Soil	12-2-23	12:00	4'	↓	1	↓	↓	↓
BS23-131 4'	↓	↓	12:05	4'	↓	1	↓	↓	↓
BS23-132 4'	↓	↓	12:10	4'	↓	1	X	X	X

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP/SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
12-4-23, 07:00, John Pullman	<u>[Signature]</u>	12/6/23 0700	2 <u>[Signature]</u>	<u>[Signature]</u>	12/11/23 7:45
3			4	<u>carner</u>	
5			6		

Revised Date: 08/25/2020 Rev. 2020.2



Environment Testing
Xenco

Chain of Custody

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 2312259

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Page

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Project Manager:	Michael Moffitt	Bill to: (if different)	
Company Name:	Vertex	Company Name:	
Address:	on file	Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	M.Moffitt@vertex.ca, S.Carroll@vertex.ca

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:	Prometheus	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes		
Project Number:	23E-03329	Due Date:	72-hr Rush													None: NO	DI Water: H ₂ O	
Project Location:	Ace Fluid Solutions	TAT starts the day received by the lab, if received by 4:30pm														Cool: Cool	MeOH: Me	
Sampler's Name:	L. Pullman															HCL: HC	HNO ₃ : HN	
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>											H ₃ PO ₄ : HP		
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	409											NaHSO ₄ : NABIS				
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	-0.2											Na ₂ S ₂ O ₃ : NaSO ₃				
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:	4.8											Zn Acetate+NaOH: Zn				
Total Containers:	1	Corrected Temperature:	4.6°											NaOH+Ascorbic Acid: SAPC				
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont											Sample Comments	
BS23-133 4'	Soil	12-2-23	12:15	4'	Comp	1	X	X	X								031	
BS23-134 4'			12:20	4'		1											032	
BS23-135 4'			12:25	4'		1											033	
BS23-136 4'			12:30	4'		1											034	
BS23-137 4'			14:10	4'		1											035	
BS23-138 4'			14:05	4'		1											036	
BS23-139 4'			13:55	4'		1											037	
BS23-140 4'			14:00	4'		1											038	
BS23-141 4'			13:50	4'		1											039	
BS23-142 4'			13:40	4'		1	X	X	X								040	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
12-4-23, 07:00, [Signature]	[Signature]	12/5/23 07:00		[Signature]	12/6/23 7:45
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 2312259

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Page

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Project Manager:	Michael Moffitt	Bill to: (if different)	
Company Name:	Veneta	Company Name:	
Address:	on file	Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	MMoffitt@veneta.ca, SCartan@veneta.ca

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:		Turn Around		ANALYSIS REQUEST																Preservative Codes					
Prometheus		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush																		None: NO DI Water: H ₂ O					
Project Number: 23E-03329		Due Date: 12-1-23																		Cool: Cool MeOH: Me					
Project Location: Ace Fluid Solutions		TAT starts the day received by the lab, if received by 4:30pm																		HCL: HC HNO ₃ : HN					
Sampler's Name: L Pullman																				H ₂ SO ₄ : H ₂ NaOH: Na					
PO #:																				H ₃ PO ₄ : HP					
SAMPLE RECEIPT		Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																	NaHSO ₄ : NABIS			
Samples Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Thermometer ID: 4091																		Na ₂ S ₂ O ₃ : NaSO ₃			
Cooler Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Correction Factor: -0.2																		Zn Acetate+NaOH: Zn			
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading: 4.8																		NaOH+Ascorbic Acid: SAPC			
Total Containers:		1		Corrected Temperature: 4.6																					
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments	
BS23-143 4'		Soil	13:30	12-2-23	4'	Comp	1	X TPH (C, D, DRO, MRO) X BTEX X Chloride																2312259	
BS23-144 4'			13:25		4'		1																	041	
BS23-145 4'			13:20		4'		1																	042	
BS23-146 4'			13:15		4'		1																	043	
BS23-147 4'			13:10		4'		1																	044	
BS23-148 4'			13:05		4'		1																	045	
BS23-149 4'			13:00		4'		1																	046	
BS23-150 4'			12:55		4'		1																	047	
BS23-151 4'			12:45		4'		1																	048	
BS23-152 4'			12:40		4'		1																	049	
					4'		1																	050	

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
12-4-23 07:00, John Pullman	[Signature]	12/6/23 0700	[Signature]	causer	12/6/23 7:45
3					
5					

Revised Date: 08/25/2020 Rev. 2020.2



Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 2312259

www.xenco.com

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[illegible]



Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 14, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2312262

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 16 sample(s) on 12/6/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-125 0-4'

Project: Prometheus

Collection Date: 12/1/2023 8:10:00 AM

Lab ID: 2312262-001

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/8/2023 4:16:09 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2023 4:16:09 PM
Surr: DNOP	82.1	69-147		%Rec	1	12/8/2023 4:16:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/7/2023 10:06:15 PM
Surr: BFB	94.3	15-244		%Rec	1	12/7/2023 10:06:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/7/2023 10:06:15 PM
Toluene	ND	0.048		mg/Kg	1	12/7/2023 10:06:15 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/7/2023 10:06:15 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/7/2023 10:06:15 PM
Surr: 4-Bromofluorobenzene	94.2	39.1-146		%Rec	1	12/7/2023 10:06:15 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	67	61		mg/Kg	20	12/8/2023 11:50:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-126 0-4'

Project: Prometheus

Collection Date: 12/1/2023 8:15:00 AM

Lab ID: 2312262-002

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/8/2023 4:26:54 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2023 4:26:54 PM
Surr: DNOP	92.9	69-147		%Rec	1	12/8/2023 4:26:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/7/2023 11:16:26 PM
Surr: BFB	95.6	15-244		%Rec	1	12/7/2023 11:16:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	12/7/2023 11:16:26 PM
Toluene	ND	0.046		mg/Kg	1	12/7/2023 11:16:26 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/7/2023 11:16:26 PM
Xylenes, Total	ND	0.092		mg/Kg	1	12/7/2023 11:16:26 PM
Surr: 4-Bromofluorobenzene	95.1	39.1-146		%Rec	1	12/7/2023 11:16:26 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	85	60		mg/Kg	20	12/9/2023 12:36:17 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-127 0-4'

Project: Prometheus

Collection Date: 12/1/2023 12:30:00 PM

Lab ID: 2312262-003

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/8/2023 4:37:38 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/8/2023 4:37:38 PM
Surr: DNOP	84.6	69-147		%Rec	1	12/8/2023 4:37:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/7/2023 11:39:52 PM
Surr: BFB	95.2	15-244		%Rec	1	12/7/2023 11:39:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	12/7/2023 11:39:52 PM
Toluene	ND	0.047		mg/Kg	1	12/7/2023 11:39:52 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/7/2023 11:39:52 PM
Xylenes, Total	ND	0.093		mg/Kg	1	12/7/2023 11:39:52 PM
Surr: 4-Bromofluorobenzene	96.2	39.1-146		%Rec	1	12/7/2023 11:39:52 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	190	60		mg/Kg	20	12/9/2023 1:21:45 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-128 0-4'
Project: Prometheus Collection Date: 12/1/2023 12:35:00 PM
Lab ID: 2312262-004 Matrix: SOIL Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2023 4:48:23 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/8/2023 4:48:23 PM
Surr: DNOP	88.4	69-147		%Rec	1	12/8/2023 4:48:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2023 12:03:23 AM
Surr: BFB	97.3	15-244		%Rec	1	12/8/2023 12:03:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/8/2023 12:03:23 AM
Toluene	ND	0.049		mg/Kg	1	12/8/2023 12:03:23 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2023 12:03:23 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/8/2023 12:03:23 AM
Surr: 4-Bromofluorobenzene	97.3	39.1-146		%Rec	1	12/8/2023 12:03:23 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	250	60		mg/Kg	20	12/9/2023 1:36:55 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-129 0-4'

Project: Prometheus

Collection Date: 12/1/2023 12:40:00 PM

Lab ID: 2312262-005

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/8/2023 5:09:54 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/8/2023 5:09:54 PM
Surr: DNOP	159	69-147	S	%Rec	1	12/8/2023 5:09:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/8/2023 12:26:52 AM
Surr: BFB	95.1	15-244		%Rec	1	12/8/2023 12:26:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/8/2023 12:26:52 AM
Toluene	ND	0.047		mg/Kg	1	12/8/2023 12:26:52 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/8/2023 12:26:52 AM
Xylenes, Total	ND	0.095		mg/Kg	1	12/8/2023 12:26:52 AM
Surr: 4-Bromofluorobenzene	95.5	39.1-146		%Rec	1	12/8/2023 12:26:52 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	64	60		mg/Kg	20	12/9/2023 2:22:23 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-130 0-4'

Project: Prometheus

Collection Date: 12/1/2023 12:45:00 PM

Lab ID: 2312262-006

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/8/2023 5:20:39 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2023 5:20:39 PM
Surr: DNOP	85.1	69-147		%Rec	1	12/8/2023 5:20:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2023 12:50:17 AM
Surr: BFB	93.4	15-244		%Rec	1	12/8/2023 12:50:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/8/2023 12:50:17 AM
Toluene	ND	0.049		mg/Kg	1	12/8/2023 12:50:17 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2023 12:50:17 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/8/2023 12:50:17 AM
Surr: 4-Bromofluorobenzene	94.6	39.1-146		%Rec	1	12/8/2023 12:50:17 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	110	60		mg/Kg	20	12/9/2023 2:37:32 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-120 4'

Project: Prometheus

Collection Date: 12/1/2023 2:30:00 PM

Lab ID: 2312262-007

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	12/8/2023 5:31:34 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	12/8/2023 5:31:34 PM
Surr: DNOP	93.6	69-147		%Rec	1	12/8/2023 5:31:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/8/2023 1:13:38 AM
Surr: BFB	95.9	15-244		%Rec	1	12/8/2023 1:13:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	12/8/2023 1:13:38 AM
Toluene	ND	0.047		mg/Kg	1	12/8/2023 1:13:38 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/8/2023 1:13:38 AM
Xylenes, Total	ND	0.093		mg/Kg	1	12/8/2023 1:13:38 AM
Surr: 4-Bromofluorobenzene	95.8	39.1-146		%Rec	1	12/8/2023 1:13:38 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1100	60		mg/Kg	20	12/9/2023 2:52:41 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-121 4'

Project: Prometheus

Collection Date: 12/1/2023 2:35:00 PM

Lab ID: 2312262-008

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2023 5:42:27 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2023 5:42:27 PM
Surr: DNOP	101	69-147		%Rec	1	12/8/2023 5:42:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/8/2023 1:37:01 AM
Surr: BFB	95.1	15-244		%Rec	1	12/8/2023 1:37:01 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/8/2023 1:37:01 AM
Toluene	ND	0.050		mg/Kg	1	12/8/2023 1:37:01 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/8/2023 1:37:01 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/8/2023 1:37:01 AM
Surr: 4-Bromofluorobenzene	96.0	39.1-146		%Rec	1	12/8/2023 1:37:01 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/9/2023 3:07:51 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-122 4'

Project: Prometheus

Collection Date: 12/1/2023 2:40:00 PM

Lab ID: 2312262-009

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/8/2023 5:53:18 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/8/2023 5:53:18 PM
Surr: DNOP	81.8	69-147		%Rec	1	12/8/2023 5:53:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2023 2:00:23 AM
Surr: BFB	97.7	15-244		%Rec	1	12/8/2023 2:00:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/8/2023 2:00:23 AM
Toluene	ND	0.048		mg/Kg	1	12/8/2023 2:00:23 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2023 2:00:23 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/8/2023 2:00:23 AM
Surr: 4-Bromofluorobenzene	98.0	39.1-146		%Rec	1	12/8/2023 2:00:23 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	3000	150		mg/Kg	50	12/11/2023 10:48:25 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-123 4'

Project: Prometheus

Collection Date: 12/1/2023 2:45:00 PM

Lab ID: 2312262-010

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/8/2023 6:04:08 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/8/2023 6:04:08 PM
Surr: DNOP	187	69-147	S	%Rec	1	12/8/2023 6:04:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/8/2023 2:47:09 AM
Surr: BFB	95.5	15-244		%Rec	1	12/8/2023 2:47:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	12/8/2023 2:47:09 AM
Toluene	ND	0.047		mg/Kg	1	12/8/2023 2:47:09 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/8/2023 2:47:09 AM
Xylenes, Total	ND	0.094		mg/Kg	1	12/8/2023 2:47:09 AM
Surr: 4-Bromofluorobenzene	96.2	39.1-146		%Rec	1	12/8/2023 2:47:09 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1300	60		mg/Kg	20	12/9/2023 3:38:10 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-124 4'

Project: Prometheus

Collection Date: 12/1/2023 2:50:00 PM

Lab ID: 2312262-011

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2023 6:14:56 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2023 6:14:56 PM
Surr: DNOP	197	69-147	S	%Rec	1	12/8/2023 6:14:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/8/2023 3:10:31 AM
Surr: BFB	97.0	15-244		%Rec	1	12/8/2023 3:10:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	12/8/2023 3:10:31 AM
Toluene	ND	0.047		mg/Kg	1	12/8/2023 3:10:31 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/8/2023 3:10:31 AM
Xylenes, Total	ND	0.093		mg/Kg	1	12/8/2023 3:10:31 AM
Surr: 4-Bromofluorobenzene	98.2	39.1-146		%Rec	1	12/8/2023 3:10:31 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	260	59		mg/Kg	20	12/9/2023 3:53:21 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-125 4'

Project: Prometheus

Collection Date: 12/1/2023 2:55:00 PM

Lab ID: 2312262-012

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	12/8/2023 6:25:43 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	12/8/2023 6:25:43 PM
Surr: DNOP	96.7	69-147		%Rec	1	12/8/2023 6:25:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/8/2023 3:33:48 AM
Surr: BFB	95.6	15-244		%Rec	1	12/8/2023 3:33:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/8/2023 3:33:48 AM
Toluene	ND	0.050		mg/Kg	1	12/8/2023 3:33:48 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/8/2023 3:33:48 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/8/2023 3:33:48 AM
Surr: 4-Bromofluorobenzene	96.2	39.1-146		%Rec	1	12/8/2023 3:33:48 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2400	150		mg/Kg	50	12/11/2023 11:03:35 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-126 4'

Project: Prometheus

Collection Date: 12/1/2023 3:00:00 PM

Lab ID: 2312262-013

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	12/8/2023 6:36:27 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/8/2023 6:36:27 PM
Surr: DNOP	199	69-147	S	%Rec	1	12/8/2023 6:36:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2023 3:57:09 AM
Surr: BFB	94.6	15-244		%Rec	1	12/8/2023 3:57:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/8/2023 3:57:09 AM
Toluene	ND	0.048		mg/Kg	1	12/8/2023 3:57:09 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2023 3:57:09 AM
Xylenes, Total	ND	0.096		mg/Kg	1	12/8/2023 3:57:09 AM
Surr: 4-Bromofluorobenzene	95.6	39.1-146		%Rec	1	12/8/2023 3:57:09 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	910	60		mg/Kg	20	12/9/2023 4:23:33 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-127 4'

Project: Prometheus

Collection Date: 12/1/2023 3:05:00 PM

Lab ID: 2312262-014

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	12/8/2023 6:47:11 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/8/2023 6:47:11 PM
Surr: DNOP	85.1	69-147		%Rec	1	12/8/2023 6:47:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2023 4:20:27 AM
Surr: BFB	97.0	15-244		%Rec	1	12/8/2023 4:20:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/8/2023 4:20:27 AM
Toluene	ND	0.048		mg/Kg	1	12/8/2023 4:20:27 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2023 4:20:27 AM
Xylenes, Total	ND	0.096		mg/Kg	1	12/8/2023 4:20:27 AM
Surr: 4-Bromofluorobenzene	97.2	39.1-146		%Rec	1	12/8/2023 4:20:27 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1400	60		mg/Kg	20	12/9/2023 4:38:43 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-128 4'

Project: Prometheus

Collection Date: 12/1/2023 3:10:00 PM

Lab ID: 2312262-015

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/8/2023 8:39:26 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/8/2023 8:39:26 PM
Surr: DNOP	132	69-147		%Rec	1	12/8/2023 8:39:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2023 2:03:34 PM
Surr: BFB	93.1	15-244		%Rec	1	12/9/2023 2:03:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/9/2023 2:03:34 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2023 2:03:34 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2023 2:03:34 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2023 2:03:34 PM
Surr: 4-Bromofluorobenzene	96.6	39.1-146		%Rec	1	12/9/2023 2:03:34 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	3100	150		mg/Kg	50	12/11/2023 10:32:45 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312262

Date Reported: 12/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-129 4'

Project: Prometheus

Collection Date: 12/1/2023 3:15:00 PM

Lab ID: 2312262-016

Matrix: SOIL

Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	12/8/2023 9:03:20 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/8/2023 9:03:20 PM
Surr: DNOP	104	69-147		%Rec	1	12/8/2023 9:03:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2023 3:36:42 PM
Surr: BFB	93.0	15-244		%Rec	1	12/9/2023 3:36:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/9/2023 3:36:42 PM
Toluene	ND	0.048		mg/Kg	1	12/9/2023 3:36:42 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2023 3:36:42 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2023 3:36:42 PM
Surr: 4-Bromofluorobenzene	97.5	39.1-146		%Rec	1	12/9/2023 3:36:42 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	2600	150		mg/Kg	50	12/11/2023 11:22:11 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312262

14-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-79262		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 79262		RunNo: 101711						
Prep Date: 12/8/2023		Analysis Date: 12/8/2023		SeqNo: 3747675			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79262		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 79262		RunNo: 101711						
Prep Date: 12/8/2023		Analysis Date: 12/8/2023		SeqNo: 3747676			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 17 of 23

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312262

14-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-79236	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79236	RunNo: 101709								
Prep Date: 12/7/2023	Analysis Date: 12/8/2023	SeqNo: 3747413			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		111	69	147			

Sample ID: LCS-79236	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79236	RunNo: 101709								
Prep Date: 12/7/2023	Analysis Date: 12/8/2023	SeqNo: 3747414			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	111	61.9	130			
Surr: DNOP	5.2		5.000		105	69	147			

Sample ID: LCS-79188	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79188	RunNo: 101710								
Prep Date: 12/6/2023	Analysis Date: 12/8/2023	SeqNo: 3747476			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	61.9	130			
Surr: DNOP	4.4		5.000		89.0	69	147			

Sample ID: MB-79188	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79188	RunNo: 101710								
Prep Date: 12/6/2023	Analysis Date: 12/8/2023	SeqNo: 3747477			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	69	147			

Sample ID: 2312262-014AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-127 4'	Batch ID: 79188	RunNo: 101710								
Prep Date: 12/6/2023	Analysis Date: 12/8/2023	SeqNo: 3749103			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.2	46.13	0	88.4	54.2	135			
Surr: DNOP	4.3		4.613		93.5	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312262

14-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2312262-014AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS23-127 4'	Batch ID: 79188	RunNo: 101710								
Prep Date: 12/6/2023	Analysis Date: 12/8/2023	SeqNo: 3749104	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.7	48.26	0	74.0	54.2	135	13.2	29.2	
Surr: DNOP	3.4		4.826		70.5	69	147	0	0	

Sample ID: LCS-79224	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79224	RunNo: 101710								
Prep Date: 12/7/2023	Analysis Date: 12/8/2023	SeqNo: 3749105	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		80.0	69	147			

Sample ID: MB-79224	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79224	RunNo: 101710								
Prep Date: 12/7/2023	Analysis Date: 12/8/2023	SeqNo: 3749106	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.8		10.00		78.3	69	147			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312262

14-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: ics-79180	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 79180		RunNo: 101668							
Prep Date: 12/6/2023	Analysis Date: 12/7/2023		SeqNo: 3745710		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.4	70	130			
Surr: BFB	2000		1000		199	15	244			

Sample ID: mb-79180	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 79180		RunNo: 101668							
Prep Date: 12/6/2023	Analysis Date: 12/7/2023		SeqNo: 3746757		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.4	15	244			

Sample ID: ics-79198	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 79198		RunNo: 101707							
Prep Date: 12/6/2023	Analysis Date: 12/8/2023		SeqNo: 3748648		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		200	15	244			

Sample ID: ics-79219	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 79219		RunNo: 101707							
Prep Date: 12/7/2023	Analysis Date: 12/9/2023		SeqNo: 3748649		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.0	70	130			
Surr: BFB	1900		1000		185	15	244			

Sample ID: mb-79198	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 79198		RunNo: 101707							
Prep Date: 12/6/2023	Analysis Date: 12/8/2023		SeqNo: 3748650		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.3	15	244			

Sample ID: mb-79219	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 79219		RunNo: 101707							
Prep Date: 12/7/2023	Analysis Date: 12/9/2023		SeqNo: 3748651		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.4	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312262

14-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-79180	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 79180		RunNo: 101668							
Prep Date: 12/6/2023	Analysis Date: 12/7/2023		SeqNo: 3746874		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.7	70	130			
Toluene	0.97	0.050	1.000	0	97.3	70	130			
Ethylbenzene	0.98	0.050	1.000	0	97.5	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.5	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.3	39.1	146			

Sample ID: mb-79180	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 79180		RunNo: 101668							
Prep Date: 12/6/2023	Analysis Date: 12/7/2023		SeqNo: 3746875		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	39.1	146			

Sample ID: 2312262-001ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-125 0-4'	Batch ID: 79180		RunNo: 101668							
Prep Date: 12/6/2023	Analysis Date: 12/7/2023		SeqNo: 3746877		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9643	0	97.8	70	130			
Toluene	0.96	0.048	0.9643	0	99.9	70	130			
Ethylbenzene	0.98	0.048	0.9643	0	102	70	130			
Xylenes, Total	3.0	0.096	2.893	0	102	70	130			
Surr: 4-Bromofluorobenzene	0.94		0.9643		97.1	39.1	146			

Sample ID: 2312262-001amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-125 0-4'	Batch ID: 79180		RunNo: 101668							
Prep Date: 12/6/2023	Analysis Date: 12/7/2023		SeqNo: 3746878		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9653	0	95.1	70	130	2.68	20	
Toluene	0.94	0.048	0.9653	0	97.1	70	130	2.69	20	
Ethylbenzene	0.95	0.048	0.9653	0	98.3	70	130	3.60	20	
Xylenes, Total	2.9	0.097	2.896	0	99.2	70	130	2.65	20	
Surr: 4-Bromofluorobenzene	0.95		0.9653		98.3	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 21 of 23

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312262

14-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-79198	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 79198				RunNo: 101707					
Prep Date: 12/6/2023	Analysis Date: 12/8/2023				SeqNo: 3748699	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	39.1	146			

Sample ID: LCS-79219	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 79219				RunNo: 101707					
Prep Date: 12/7/2023	Analysis Date: 12/9/2023				SeqNo: 3748700	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.1	70	130			
Toluene	0.95	0.050	1.000	0	95.1	70	130			
Ethylbenzene	0.94	0.050	1.000	0	94.1	70	130			
Xylenes, Total	2.8	0.10	3.000	0	94.1	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	39.1	146			

Sample ID: mb-79198	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 79198				RunNo: 101707					
Prep Date: 12/6/2023	Analysis Date: 12/8/2023				SeqNo: 3748701	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		95.0	39.1	146			

Sample ID: mb-79219	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 79219				RunNo: 101707					
Prep Date: 12/7/2023	Analysis Date: 12/9/2023				SeqNo: 3748702	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.5	39.1	146			

Sample ID: 2312262-015ams	SampType: MS				TestCode: EPA Method 8021B: Volatiles					
Client ID: BS23-128 4'	Batch ID: 79219				RunNo: 101707					
Prep Date: 12/7/2023	Analysis Date: 12/9/2023				SeqNo: 3748733	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9794	0	93.8	70	130			
Toluene	0.93	0.049	0.9794	0	95.0	70	130			
Ethylbenzene	0.94	0.049	0.9794	0	95.8	70	130			
Xylenes, Total	2.8	0.098	2.938	0	95.2	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 22 of 23

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312262

14-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2312262-015ams		SampType: MS			TestCode: EPA Method 8021B: Volatiles					
Client ID: BS23-128 4'		Batch ID: 79219			RunNo: 101707					
Prep Date: 12/7/2023		Analysis Date: 12/9/2023			SeqNo: 3748733		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		0.9794		97.5	39.1	146			

Sample ID: 2312262-015amsd	SampType: MSD				TestCode: EPA Method 8021B: Volatiles					
Client ID: BS23-128 4'	Batch ID: 79219				RunNo: 101707					
Prep Date: 12/7/2023	Analysis Date: 12/9/2023				SeqNo: 3748734		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9756	0	94.1	70	130	0.0185	20	
Toluene	0.93	0.049	0.9756	0	95.8	70	130	0.385	20	
Ethylbenzene	0.94	0.049	0.9756	0	96.7	70	130	0.565	20	
Xylenes, Total	2.8	0.098	2.927	0	96.6	70	130	1.09	20	
Surr: 4-Bromofluorobenzene	0.97		0.9756		99.1	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2312262

RcptNo: 1

Received By: Tracy Casarrubias

12/6/2023 7:45:00 AM

Completed By: Tracy Casarrubias

12/6/2023 9:33:03 AM

Reviewed By: *ju 12/6/23***Chain of Custody**

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *ju 12-6-23***Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Mailing address and phone number are missing on COC- TMC 12/6/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Yes	Yogi		



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 2312202www.xenco.com Page 1 of 2

Project Manager:	<u>Michael Moffitt</u>	Bill to: (if different)	
Company Name:	<u>Vertex</u>	Company Name:	
Address:	<u>on file</u>	Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	<u>MMoffitt@vertex.ca, SCantano@vertex.ca</u>

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

ANALYSIS REQUEST										Preservative Codes			
Project Name:	<u>Prometheus</u>	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code							None: NO	DI Water: H ₂ O	
Project Number:	<u>285-03329</u>	Due Date:	<u>72-hour Rush</u>								Cool: Cool	MeOH: Me	
Project Location:	<u>Acc. Fluid Solutions</u>	TAT starts the day received by the lab, if received by 4:30pm									HCL: HC	HNO ₃ : HN	
Sampler's Name:	<u>L. Fullman</u>										H ₂ SO ₄ : H ₂	NaOH: Na	
PO #:											H ₃ PO ₄ : HP		
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No	Parameters <u>TpH (GAG, DRG, MAC)</u> <u>RTGX</u> <u>Chloride</u>					NaHSO ₄ : NABIS		
Samples Received Intact:	Yes No	Thermometer ID:	<u>4091</u>		Na ₂ S ₂ O ₅ : NaSO ₃								
Cooler Custody Seals:	Yes No N/A	Correction Factor:	<u>-0.2</u>		Zn Acetate+NaOH: Zn								
Sample Custody Seals:	Yes No N/A	Temperature Reading:	<u>4.3</u>		NaOH+Ascorbic Acid: SAPC								
Total Containers:	<u>1</u>	Corrected Temperature:	<u>4.1</u>										
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont						Sample Comments	
WS23-125 0-4'	Soil	12-1-23	08:10	0-4'	Comp	1	X	X	X				001
WS23-126 0-4'			08:15	0-4'		1							002
WS23-127 0-4'			12:30	0-4'		1							003
WS23-128 0-4'			12:35	0-4'		1							004
WS23-129 0-4'			12:40	0-4'		1							005
WS23-130 0-4'			12:45	0-4'		1							006
BS23-120 4'			14:30	4'		1							007
BS23-121 4'			14:35	4'		1							008
BS23-122 4'			14:40	4'		1							009
BS23-123 4'	✓	✓	14:45	4'	✓	1	X	X	X				010

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>John Fullman 12-4-23 07:00</u>	<u>[Signature]</u>	<u>12/5/23 0700</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>12/6/23 7:45</u>

Revised Date: 08/25/2020 Rev. 2020.2



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 2312262

www.xenco.com Page 2 of 2

Project Manager: <u>Michael Moffitt</u>		Bill to: (if different)	
Company Name: <u>Vertex</u>		Company Name:	
Address: <u>On file</u>		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email: <u>mmoffitt@vertex.ca, SCarHar@vertex.ca</u>	

Project Name: <u>Prometheus</u>										Turn Around		ANALYSIS REQUEST										Preservative Codes	
Project Number: <u>23G-03329</u>		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code														None: NO DI Water: H ₂ O					
Project Location: <u>Ace Fluid Solutions</u>		Due Date: <u>7-2-23</u>		TAT starts the day received by the lab, if received by 4:30pm														Cool: Cool MeOH: Me					
Sampler's Name: <u>L. Aulman</u>																		HCL: HC HNO ₃ : HN					
P.O. #:																		H ₂ SO ₄ : H ₂ NaOH: Na					
SAMPLE RECEIPT		Temp Blank: Yes No		Wet Ice: Yes No														H ₃ PO ₄ : HP					
Samples Received Intact: Yes No		Thermometer ID:																NaHSO ₄ : NABIS					
Cooler Custody Seals: Yes No N/A		Correction Factor:																Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals: Yes No N/A		Temperature Reading:																Zn Acetate+NaOH: Zn					
Total Containers:		Corrected Temperature:																NaOH+Ascorbic Acid: SAPC					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH (GAS, DOC, MRO)	BTX	Chloride											Sample Comments
BS23-124 4'	Soil	12-1-23	14:50	4'	Comp	1	X	X	X											011
BS23-125 4'	↓	↓	14:55	4'	↓	1														012
BS23-126 4'	↓	↓	15:00	4'	↓	1														013
BS23-127 4'	↓	↓	15:05	4'	↓	1														014
BS23-128 4'	↓	↓	15:10	4'	↓	1														015
BS23-129 4'	↓	↓	15:15	4'	↓	1														016

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <u>L. Aulman</u> 12-4-23, 07:00	<u>[Signature]</u>	12/5/23 07:00	2 <u>[Signature]</u>	<u>[Signature]</u>	12/16/23 7:45
3			4	<u>Carner</u>	
5			6		

Revised Date: 08/25/2020 Rev. 2020.2



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

January 04, 2024

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2312561

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 12/9/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2312561

Date Reported: 1/4/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-43 4'

Project: Prometheus

Collection Date: 12/7/2023 10:05:00 AM

Lab ID: 2312561-001

Matrix: SOIL

Received Date: 12/9/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/14/2023 2:50:50 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/14/2023 2:50:50 PM
Surr: DNOP	74.9	69-147		%Rec	1	12/14/2023 2:50:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2023 1:40:46 PM
Surr: BFB	97.7	15-244		%Rec	1	12/14/2023 1:40:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/14/2023 1:40:46 PM
Toluene	ND	0.048		mg/Kg	1	12/14/2023 1:40:46 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2023 1:40:46 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/14/2023 1:40:46 PM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	12/14/2023 1:40:46 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	680	60		mg/Kg	20	12/14/2023 4:22:24 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312561
Date Reported: 1/4/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-67 4'
Project: Prometheus Collection Date: 12/7/2023 9:45:00 AM
Lab ID: 2312561-002 Matrix: SOIL Received Date: 12/9/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/14/2023 3:15:07 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2023 3:15:07 PM
Surr: DNOP	75.1	69-147		%Rec	1	12/14/2023 3:15:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/14/2023 2:04:33 PM
Surr: BFB	101	15-244		%Rec	1	12/14/2023 2:04:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/14/2023 2:04:33 PM
Toluene	ND	0.049		mg/Kg	1	12/14/2023 2:04:33 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/14/2023 2:04:33 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/14/2023 2:04:33 PM
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	12/14/2023 2:04:33 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	130	60		mg/Kg	20	12/14/2023 4:37:33 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312561

Date Reported: 1/4/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-154 4'

Project: Prometheus

Collection Date: 12/7/2023 9:30:00 AM

Lab ID: 2312561-003

Matrix: SOIL

Received Date: 12/9/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/14/2023 3:39:26 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2023 3:39:26 PM
Surr: DNOP	75.1	69-147		%Rec	1	12/14/2023 3:39:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/14/2023 2:28:15 PM
Surr: BFB	101	15-244		%Rec	1	12/14/2023 2:28:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	12/14/2023 2:28:15 PM
Toluene	ND	0.046		mg/Kg	1	12/14/2023 2:28:15 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/14/2023 2:28:15 PM
Xylenes, Total	ND	0.093		mg/Kg	1	12/14/2023 2:28:15 PM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	12/14/2023 2:28:15 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	2500	150		mg/Kg	50	12/14/2023 6:12:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312561

Date Reported: 1/4/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-155 4'

Project: Prometheus

Collection Date: 12/7/2023 9:30:00 AM

Lab ID: 2312561-004

Matrix: SOIL

Received Date: 12/9/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/14/2023 4:03:47 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2023 4:03:47 PM
Surr: DNOP	72.8	69-147		%Rec	1	12/14/2023 4:03:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2023 2:52:00 PM
Surr: BFB	102	15-244		%Rec	1	12/14/2023 2:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/14/2023 2:52:00 PM
Toluene	ND	0.048		mg/Kg	1	12/14/2023 2:52:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2023 2:52:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2023 2:52:00 PM
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	12/14/2023 2:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	2400	150		mg/Kg	50	12/14/2023 1:39:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312561

Date Reported: 1/4/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-34 0-4'

Project: Prometheus

Collection Date: 12/7/2023 9:45:00 AM

Lab ID: 2312561-005

Matrix: SOIL

Received Date: 12/9/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/14/2023 4:28:07 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2023 4:28:07 PM
Surr: DNOP	77.3	69-147		%Rec	1	12/14/2023 4:28:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/14/2023 3:15:42 PM
Surr: BFB	101	15-244		%Rec	1	12/14/2023 3:15:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/14/2023 3:15:42 PM
Toluene	ND	0.049		mg/Kg	1	12/14/2023 3:15:42 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/14/2023 3:15:42 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/14/2023 3:15:42 PM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	12/14/2023 3:15:42 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	380	60		mg/Kg	20	12/13/2023 10:16:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312561
Date Reported: 1/4/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-151 0-4'
Project: Prometheus Collection Date: 12/7/2023 9:55:00 AM
Lab ID: 2312561-006 Matrix: SOIL Received Date: 12/9/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/14/2023 4:52:21 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/14/2023 4:52:21 PM
Surr: DNOP	75.6	69-147		%Rec	1	12/14/2023 4:52:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2023 3:39:37 PM
Surr: BFB	106	15-244		%Rec	1	12/14/2023 3:39:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/14/2023 3:39:37 PM
Toluene	ND	0.047		mg/Kg	1	12/14/2023 3:39:37 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2023 3:39:37 PM
Xylenes, Total	ND	0.094		mg/Kg	1	12/14/2023 3:39:37 PM
Surr: 4-Bromofluorobenzene	106	39.1-146		%Rec	1	12/14/2023 3:39:37 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	380	60		mg/Kg	20	12/13/2023 10:28:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312561

04-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-79375	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 79375	RunNo: 101822								
Prep Date: 12/13/2023	Analysis Date: 12/14/2023	SeqNo: 3754047	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79375	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 79375	RunNo: 101822								
Prep Date: 12/13/2023	Analysis Date: 12/14/2023	SeqNo: 3754048	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

- Qualifiers:
- *

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312561

04-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-79326	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79326	RunNo: 101809								
Prep Date: 12/12/2023	Analysis Date: 12/13/2023	SeqNo: 3754791			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		82.3	69	147			

Sample ID: LCS-79326	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79326	RunNo: 101809								
Prep Date: 12/12/2023	Analysis Date: 12/13/2023	SeqNo: 3754792			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		73.1	69	147			

Sample ID: MB-79381	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79381	RunNo: 101809								
Prep Date: 12/14/2023	Analysis Date: 12/14/2023	SeqNo: 3754826			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	6.9		10.00		68.7	69	147			S

Sample ID: LCS-79381	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79381	RunNo: 101809								
Prep Date: 12/14/2023	Analysis Date: 12/14/2023	SeqNo: 3754827			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.6	61.9	130			
Surr: DNOP	3.5		5.000		69.0	69	147			

Sample ID: 2312561-006AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-151 0-4'	Batch ID: 79381	RunNo: 101809								
Prep Date: 12/14/2023	Analysis Date: 12/14/2023	SeqNo: 3755366			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.9	49.46	0	98.4	54.2	135			
Surr: DNOP	3.8		4.946		77.4	69	147			

Sample ID: 2312561-006AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-151 0-4'	Batch ID: 79381	RunNo: 101809								
Prep Date: 12/14/2023	Analysis Date: 12/14/2023	SeqNo: 3755367			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.7	48.40	0	98.6	54.2	135	1.93	29.2	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312561

04-Jan-24

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: 2312561-006AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-151 0-4'	Batch ID: 79381	RunNo: 101809								
Prep Date: 12/14/2023	Analysis Date: 12/14/2023	SeqNo: 3755367		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		4.840		77.8	69	147	0	0	

Sample ID: MB-79381	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79381	RunNo: 101864								
Prep Date: 12/14/2023	Analysis Date: 12/15/2023	SeqNo: 3756007		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		89.9	69	147			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312561

04-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: ics-79347	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 79347		RunNo: 101840							
Prep Date: 12/13/2023	Analysis Date: 12/14/2023		SeqNo: 3754833		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	70	130			
Surr: BFB	2100		1000		211	15	244			

Sample ID: mb-79347	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 79347		RunNo: 101840							
Prep Date: 12/13/2023	Analysis Date: 12/14/2023		SeqNo: 3754834		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.9	15	244			

Sample ID: 2312561-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BS23-43 4'	Batch ID: 79347		RunNo: 101840							
Prep Date: 12/13/2023	Analysis Date: 12/14/2023		SeqNo: 3755089		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.92	0	99.2	70	130			
Surr: BFB	2000		956.9		210	15	244			

Sample ID: 2312561-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BS23-43 4'	Batch ID: 79347		RunNo: 101840							
Prep Date: 12/13/2023	Analysis Date: 12/14/2023		SeqNo: 3755090		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.99	0	101	70	130	1.93	20	
Surr: BFB	2000		959.7		213	15	244	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312561

04-Jan-24

Client: Vertex Resources Services, Inc.**Project:** Prometheus

Sample ID: LCS-79347	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 79347		RunNo: 101840							
Prep Date: 12/13/2023	Analysis Date: 12/14/2023		SeqNo: 3754843		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.1	70	130			
Toluene	0.98	0.050	1.000	0	98.0	70	130			
Ethylbenzene	1.0	0.050	1.000	0	99.9	70	130			
Xylenes, Total	3.0	0.10	3.000	0	101	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			

Sample ID: mb-79347	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 79347		RunNo: 101840							
Prep Date: 12/13/2023	Analysis Date: 12/14/2023		SeqNo: 3754844		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			

Sample ID: 2312561-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BS23-67 4'	Batch ID: 79347		RunNo: 101840							
Prep Date: 12/13/2023	Analysis Date: 12/14/2023		SeqNo: 3755123		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9862	0	95.3	70	130			
Toluene	0.95	0.049	0.9862	0	96.7	70	130			
Ethylbenzene	0.97	0.049	0.9862	0	98.4	70	130			
Xylenes, Total	2.9	0.099	2.959	0	98.9	70	130			
Surr: 4-Bromofluorobenzene	1.0		0.9862		104	39.1	146			

Sample ID: 2312561-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BS23-67 4'	Batch ID: 79347		RunNo: 101840							
Prep Date: 12/13/2023	Analysis Date: 12/14/2023		SeqNo: 3755124		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9804	0	99.8	70	130	4.04	20	
Toluene	0.99	0.049	0.9804	0	101	70	130	3.54	20	
Ethylbenzene	1.0	0.049	0.9804	0	102	70	130	3.31	20	
Xylenes, Total	3.0	0.098	2.941	0	103	70	130	3.38	20	
Surr: 4-Bromofluorobenzene	1.0		0.9804		104	39.1	146	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		



Environment Testin

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Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources Work Order Number: 2312561 RcptNo: 1

Received By: Cheyenne Cason 12/9/2023 7:50:00 AM

Completed By: Cheyenne Cason 12/9/2023 8:10:03 AM

Reviewed By: *[Signature]* 12/09/23

*[Signature]**[Signature]*Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(≤2 or >12 unless noted)

Adjusted? _____

Checked by: *CNC 12/9/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good	Not Present	Morty		



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

January 17, 2024

Sally Carttar

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2401479

Dear Sally Carttar:

Eurofins Environment Testing South Central, LLC received 14 sample(s) on 1/12/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-155 0-4'

Project: Prometheus

Collection Date: 1/10/2024 10:00:00 AM

Lab ID: 2401479-001

Matrix: MEOH (SOIL)

Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/12/2024 1:00:33 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/12/2024 1:00:33 PM
Surr: DNOP	97.6	69-147		%Rec	1	1/12/2024 1:00:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/12/2024 2:46:03 PM
Surr: BFB	99.0	15-244		%Rec	1	1/12/2024 2:46:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/12/2024 2:46:03 PM
Toluene	ND	0.048		mg/Kg	1	1/12/2024 2:46:03 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/12/2024 2:46:03 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/12/2024 2:46:03 PM
Surr: 4-Bromofluorobenzene	91.0	39.1-146		%Rec	1	1/12/2024 2:46:03 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	280	60		mg/Kg	20	1/12/2024 5:50:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401479
Date Reported: 1/17/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-156 0-4'
Project: Prometheus Collection Date: 1/10/2024 10:10:00 AM
Lab ID: 2401479-002 Matrix: MEOH (SOIL) Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/12/2024 1:24:16 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/12/2024 1:24:16 PM
Surr: DNOP	95.5	69-147		%Rec	1	1/12/2024 1:24:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	1/12/2024 3:09:54 PM
Surr: BFB	102	15-244		%Rec	1	1/12/2024 3:09:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.018		mg/Kg	1	1/12/2024 3:09:54 PM
Toluene	ND	0.036		mg/Kg	1	1/12/2024 3:09:54 PM
Ethylbenzene	ND	0.036		mg/Kg	1	1/12/2024 3:09:54 PM
Xylenes, Total	ND	0.072		mg/Kg	1	1/12/2024 3:09:54 PM
Surr: 4-Bromofluorobenzene	94.8	39.1-146		%Rec	1	1/12/2024 3:09:54 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	420	60		mg/Kg	20	1/12/2024 6:03:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401479
Date Reported: 1/17/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-157 0-4'
Project: Prometheus Collection Date: 1/10/2024 10:20:00 AM
Lab ID: 2401479-003 Matrix: MEOH (SOIL) Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/12/2024 1:18:18 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2024 1:18:18 PM
Surr: DNOP	98.3	69-147		%Rec	1	1/12/2024 1:18:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	1/12/2024 3:33:37 PM
Surr: BFB	97.4	15-244		%Rec	1	1/12/2024 3:33:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.017		mg/Kg	1	1/12/2024 3:33:37 PM
Toluene	ND	0.035		mg/Kg	1	1/12/2024 3:33:37 PM
Ethylbenzene	ND	0.035		mg/Kg	1	1/12/2024 3:33:37 PM
Xylenes, Total	ND	0.070		mg/Kg	1	1/12/2024 3:33:37 PM
Surr: 4-Bromofluorobenzene	89.4	39.1-146		%Rec	1	1/12/2024 3:33:37 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	290	60		mg/Kg	20	1/12/2024 6:15:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401479

Date Reported: 1/17/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-158 0-4'
Project: Prometheus Collection Date: 1/10/2024 10:30:00 AM
Lab ID: 2401479-004 Matrix: MEOH (SOIL) Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/12/2024 1:29:00 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2024 1:29:00 PM
Surr: DNOP	94.0	69-147		%Rec	1	1/12/2024 1:29:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	1/12/2024 3:57:39 PM
Surr: BFB	98.2	15-244		%Rec	1	1/12/2024 3:57:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.018		mg/Kg	1	1/12/2024 3:57:39 PM
Toluene	ND	0.036		mg/Kg	1	1/12/2024 3:57:39 PM
Ethylbenzene	ND	0.036		mg/Kg	1	1/12/2024 3:57:39 PM
Xylenes, Total	ND	0.073		mg/Kg	1	1/12/2024 3:57:39 PM
Surr: 4-Bromofluorobenzene	90.5	39.1-146		%Rec	1	1/12/2024 3:57:39 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	630	60		mg/Kg	20	1/12/2024 6:28:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-159 0-4'

Project: Prometheus

Collection Date: 1/10/2024 10:40:00 AM

Lab ID: 2401479-005

Matrix: MEOH (SOIL) Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/12/2024 1:39:39 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/12/2024 1:39:39 PM
Surr: DNOP	78.3	69-147		%Rec	1	1/12/2024 1:39:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	1/12/2024 4:21:18 PM
Surr: BFB	98.7	15-244		%Rec	1	1/12/2024 4:21:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.016		mg/Kg	1	1/12/2024 4:21:18 PM
Toluene	ND	0.032		mg/Kg	1	1/12/2024 4:21:18 PM
Ethylbenzene	ND	0.032		mg/Kg	1	1/12/2024 4:21:18 PM
Xylenes, Total	ND	0.065		mg/Kg	1	1/12/2024 4:21:18 PM
Surr: 4-Bromofluorobenzene	90.9	39.1-146		%Rec	1	1/12/2024 4:21:18 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	400	60		mg/Kg	20	1/12/2024 6:40:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-160 0-4'

Project: Prometheus

Collection Date: 1/10/2024 10:50:00 AM

Lab ID: 2401479-006

Matrix: MEOH (SOIL) Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/12/2024 1:50:22 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/12/2024 1:50:22 PM
Surr: DNOP	86.9	69-147		%Rec	1	1/12/2024 1:50:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	1/12/2024 4:44:57 PM
Surr: BFB	102	15-244		%Rec	1	1/12/2024 4:44:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.019		mg/Kg	1	1/12/2024 4:44:57 PM
Toluene	ND	0.039		mg/Kg	1	1/12/2024 4:44:57 PM
Ethylbenzene	ND	0.039		mg/Kg	1	1/12/2024 4:44:57 PM
Xylenes, Total	ND	0.078		mg/Kg	1	1/12/2024 4:44:57 PM
Surr: 4-Bromofluorobenzene	89.8	39.1-146		%Rec	1	1/12/2024 4:44:57 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	640	60		mg/Kg	20	1/12/2024 6:52:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-161 0-4'

Project: Prometheus

Collection Date: 1/10/2024 11:00:00 AM

Lab ID: 2401479-007

Matrix: MEOH (SOIL) Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/12/2024 2:01:06 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/12/2024 2:01:06 PM
Surr: DNOP	91.3	69-147		%Rec	1	1/12/2024 2:01:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	1/12/2024 5:32:36 PM
Surr: BFB	97.2	15-244		%Rec	1	1/12/2024 5:32:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.019		mg/Kg	1	1/12/2024 5:32:36 PM
Toluene	ND	0.038		mg/Kg	1	1/12/2024 5:32:36 PM
Ethylbenzene	ND	0.038		mg/Kg	1	1/12/2024 5:32:36 PM
Xylenes, Total	ND	0.075		mg/Kg	1	1/12/2024 5:32:36 PM
Surr: 4-Bromofluorobenzene	89.0	39.1-146		%Rec	1	1/12/2024 5:32:36 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	310	60		mg/Kg	20	1/12/2024 7:05:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-162 0-4'

Project: Prometheus

Collection Date: 1/10/2024 11:10:00 AM

Lab ID: 2401479-008

Matrix: MEOH (SOIL) Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/12/2024 2:17:52 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2024 2:17:52 PM
Surr: DNOP	88.4	69-147		%Rec	1	1/12/2024 2:17:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	1/12/2024 5:56:23 PM
Surr: BFB	98.2	15-244		%Rec	1	1/12/2024 5:56:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.016		mg/Kg	1	1/12/2024 5:56:23 PM
Toluene	ND	0.033		mg/Kg	1	1/12/2024 5:56:23 PM
Ethylbenzene	ND	0.033		mg/Kg	1	1/12/2024 5:56:23 PM
Xylenes, Total	ND	0.065		mg/Kg	1	1/12/2024 5:56:23 PM
Surr: 4-Bromofluorobenzene	90.2	39.1-146		%Rec	1	1/12/2024 5:56:23 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	77	59		mg/Kg	20	1/12/2024 7:17:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2401479

Date Reported: 1/17/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-163 0-4'

Project: Prometheus

Collection Date: 1/10/2024 11:20:00 AM

Lab ID: 2401479-009

Matrix: MEOH (SOIL)

Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/12/2024 2:28:39 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/12/2024 2:28:39 PM
Surr: DNOP	88.5	69-147		%Rec	1	1/12/2024 2:28:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	1/12/2024 6:20:09 PM
Surr: BFB	96.4	15-244		%Rec	1	1/12/2024 6:20:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.017		mg/Kg	1	1/12/2024 6:20:09 PM
Toluene	ND	0.034		mg/Kg	1	1/12/2024 6:20:09 PM
Ethylbenzene	ND	0.034		mg/Kg	1	1/12/2024 6:20:09 PM
Xylenes, Total	ND	0.067		mg/Kg	1	1/12/2024 6:20:09 PM
Surr: 4-Bromofluorobenzene	89.8	39.1-146		%Rec	1	1/12/2024 6:20:09 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	180	59		mg/Kg	20	1/12/2024 7:54:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401479
Date Reported: 1/17/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-164 4'
Project: Prometheus Collection Date: 1/10/2024 11:30:00 AM
Lab ID: 2401479-010 Matrix: MEOH (SOIL) Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/12/2024 2:39:30 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2024 2:39:30 PM
Surr: DNOP	88.4	69-147		%Rec	1	1/12/2024 2:39:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	1/12/2024 6:44:14 PM
Surr: BFB	96.5	15-244		%Rec	1	1/12/2024 6:44:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.018		mg/Kg	1	1/12/2024 6:44:14 PM
Toluene	ND	0.035		mg/Kg	1	1/12/2024 6:44:14 PM
Ethylbenzene	ND	0.035		mg/Kg	1	1/12/2024 6:44:14 PM
Xylenes, Total	ND	0.071		mg/Kg	1	1/12/2024 6:44:14 PM
Surr: 4-Bromofluorobenzene	88.3	39.1-146		%Rec	1	1/12/2024 6:44:14 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	170	60		mg/Kg	20	1/12/2024 8:07:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-165 4'

Project: Prometheus

Collection Date: 1/10/2024 11:40:00 AM

Lab ID: 2401479-011

Matrix: MEOH (SOIL)

Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/12/2024 2:50:19 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/12/2024 2:50:19 PM
Surr: DNOP	93.6	69-147		%Rec	1	1/12/2024 2:50:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	1/12/2024 7:08:15 PM
Surr: BFB	95.5	15-244		%Rec	1	1/12/2024 7:08:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.015		mg/Kg	1	1/12/2024 7:08:15 PM
Toluene	ND	0.030		mg/Kg	1	1/12/2024 7:08:15 PM
Ethylbenzene	ND	0.030		mg/Kg	1	1/12/2024 7:08:15 PM
Xylenes, Total	ND	0.061		mg/Kg	1	1/12/2024 7:08:15 PM
Surr: 4-Bromofluorobenzene	87.4	39.1-146		%Rec	1	1/12/2024 7:08:15 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	94	60		mg/Kg	20	1/12/2024 8:19:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401479
Date Reported: 1/17/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-166 4'
Project: Prometheus Collection Date: 1/10/2024 11:50:00 AM
Lab ID: 2401479-012 Matrix: MEOH (SOIL) Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/12/2024 3:01:09 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/12/2024 3:01:09 PM
Surr: DNOP	94.5	69-147		%Rec	1	1/12/2024 3:01:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	1/12/2024 7:32:14 PM
Surr: BFB	95.9	15-244		%Rec	1	1/12/2024 7:32:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.017		mg/Kg	1	1/12/2024 7:32:14 PM
Toluene	ND	0.034		mg/Kg	1	1/12/2024 7:32:14 PM
Ethylbenzene	ND	0.034		mg/Kg	1	1/12/2024 7:32:14 PM
Xylenes, Total	ND	0.068		mg/Kg	1	1/12/2024 7:32:14 PM
Surr: 4-Bromofluorobenzene	88.1	39.1-146		%Rec	1	1/12/2024 7:32:14 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	310	60		mg/Kg	20	1/12/2024 8:32:07 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-167 4'

Project: Prometheus

Collection Date: 1/10/2024 12:00:00 PM

Lab ID: 2401479-013

Matrix: MEOH (SOIL)

Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/12/2024 1:48:02 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/12/2024 1:48:02 PM
Surr: DNOP	95.1	69-147		%Rec	1	1/12/2024 1:48:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	1/12/2024 7:56:02 PM
Surr: BFB	94.1	15-244		%Rec	1	1/12/2024 7:56:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.019		mg/Kg	1	1/12/2024 7:56:02 PM
Toluene	ND	0.038		mg/Kg	1	1/12/2024 7:56:02 PM
Ethylbenzene	ND	0.038		mg/Kg	1	1/12/2024 7:56:02 PM
Xylenes, Total	ND	0.077		mg/Kg	1	1/12/2024 7:56:02 PM
Surr: 4-Bromofluorobenzene	86.6	39.1-146		%Rec	1	1/12/2024 7:56:02 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	710	61		mg/Kg	20	1/12/2024 8:44:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401479-014

Client Sample ID: WS23-168 0-4'
Collection Date: 1/10/2024 12:10:00 PM
Matrix: MEOH (SOIL) Received Date: 1/12/2024 10:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/12/2024 2:11:51 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2024 2:11:51 PM
Surr: DNOP	96.1	69-147		%Rec	1	1/12/2024 2:11:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	1/12/2024 8:19:44 PM
Surr: BFB	99.0	15-244		%Rec	1	1/12/2024 8:19:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.017		mg/Kg	1	1/12/2024 8:19:44 PM
Toluene	ND	0.034		mg/Kg	1	1/12/2024 8:19:44 PM
Ethylbenzene	ND	0.034		mg/Kg	1	1/12/2024 8:19:44 PM
Xylenes, Total	ND	0.069		mg/Kg	1	1/12/2024 8:19:44 PM
Surr: 4-Bromofluorobenzene	90.0	39.1-146		%Rec	1	1/12/2024 8:19:44 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	4800	150		mg/Kg	50	1/15/2024 10:47:41 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401479

17-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-79886	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 79886	RunNo: 102433								
Prep Date: 1/12/2024	Analysis Date: 1/12/2024	SeqNo: 3783739		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79886	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 79886	RunNo: 102433								
Prep Date: 1/12/2024	Analysis Date: 1/12/2024	SeqNo: 3783740		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401479

17-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2401479-014AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: WS23-168 0-4'	Batch ID: 79880	RunNo: 102424
Prep Date: 1/12/2024	Analysis Date: 1/12/2024	SeqNo: 3783293 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	50	8.8 43.94 0 113 54.2 135
Surr: DNOP	4.2	4.394 96.2 69 147

Sample ID: 2401479-014AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: WS23-168 0-4'	Batch ID: 79880	RunNo: 102424
Prep Date: 1/12/2024	Analysis Date: 1/12/2024	SeqNo: 3783294 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	53	9.1 45.45 0 117 54.2 135 7.12 29.2
Surr: DNOP	4.5	4.545 98.7 69 147 0 0

Sample ID: LCS-79870	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 79870	RunNo: 102425
Prep Date: 1/11/2024	Analysis Date: 1/12/2024	SeqNo: 3783328 Units: %Rec
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.0	5.000 100 69 147

Sample ID: MB-79870	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 79870	RunNo: 102425
Prep Date: 1/11/2024	Analysis Date: 1/12/2024	SeqNo: 3783329 Units: %Rec
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	12	10.00 118 69 147

Sample ID: MB-79880	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 79880	RunNo: 102425
Prep Date: 1/12/2024	Analysis Date: 1/12/2024	SeqNo: 3783330 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND	10
Motor Oil Range Organics (MRO)	ND	50
Surr: DNOP	9.1	10.00 90.8 69 147

Sample ID: LCS-79880	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 79880	RunNo: 102432
Prep Date: 1/12/2024	Analysis Date: 1/15/2024	SeqNo: 3783698 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	58	10 50.00 0 116 61.9 130

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401479

17-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: LCS-79880	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79880	RunNo: 102432								
Prep Date: 1/12/2024	Analysis Date: 1/15/2024	SeqNo: 3783698		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.6		5.000		132	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 17 of 19

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401479
17-Jan-24

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: GS102406	RunNo: 102406								
Prep Date:	Analysis Date: 1/12/2024	SeqNo: 3782139 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	70	130			
Surr: BFB	2100		1000		212	15	244			

Sample ID: 2401479-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: WS23-155 0-4'	Batch ID: GS102406	RunNo: 102406								
Prep Date:	Analysis Date: 1/12/2024	SeqNo: 3783264 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.79	0	99.7	70	130			
Surr: BFB	2000		951.5		208	15	244			

Sample ID: 2401479-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: WS23-155 0-4'	Batch ID: GS102406	RunNo: 102406								
Prep Date:	Analysis Date: 1/12/2024	SeqNo: 3783265 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.79	0	99.8	70	130	0.120	20	
Surr: BFB	2000		951.5		211	15	244	0	0	

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: GS102406	RunNo: 102406								
Prep Date:	Analysis Date: 1/12/2024	SeqNo: 3783791 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.9	15	244			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 18 of 19

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401479

17-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: BS102406		RunNo: 102406							
Prep Date:	Analysis Date: 1/12/2024		SeqNo: 3782140		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	85.8	70	130			
Toluene	0.88	0.050	1.000	0	87.7	70	130			
Ethylbenzene	0.88	0.050	1.000	0	88.3	70	130			
Xylenes, Total	2.7	0.10	3.000	0	88.9	70	130			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.7	39.1	146			

Sample ID: 2401479-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-156 0-4'	Batch ID: BS102406		RunNo: 102406							
Prep Date:	Analysis Date: 1/13/2024		SeqNo: 3783266		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.61	0.018	0.7179	0	84.6	70	130			
Toluene	0.62	0.036	0.7179	0	86.7	70	130			
Ethylbenzene	0.63	0.036	0.7179	0	87.4	70	130			
Xylenes, Total	1.9	0.072	2.154	0	87.7	70	130			
Surr: 4-Bromofluorobenzene	0.61		0.7179		84.4	39.1	146			

Sample ID: 2401479-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS23-156 0-4'	Batch ID: BS102406		RunNo: 102406							
Prep Date:	Analysis Date: 1/13/2024		SeqNo: 3783267		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.61	0.018	0.7179	0	85.0	70	130	0.495	20	
Toluene	0.63	0.036	0.7179	0	87.4	70	130	0.769	20	
Ethylbenzene	0.64	0.036	0.7179	0	88.9	70	130	1.60	20	
Xylenes, Total	1.9	0.072	2.154	0	90.3	70	130	2.88	20	
Surr: 4-Bromofluorobenzene	0.65		0.7179		89.9	39.1	146	0	0	

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: BS102406		RunNo: 102406							
Prep Date:	Analysis Date: 1/12/2024		SeqNo: 3783793		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		91.6	39.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



Environment Testin

Eurofins Environment Testing South
Central, LLC4901 Hawkins NE
Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2401479

RcptNo: 1

Received By: Nancy Proctor

1/12/2024 10:52:00 AM

Completed By: Tracy Casarrubias

1/12/2024 11:12:43 AM

Reviewed By:

 1/12/24Chain of Custody

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

Log In


3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

 1-12-24Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

Mailing address, phone number and Email/Fax are missing on COC- TMC 1/12/24

16. Additional remarks:

Client did not relinquish chain of custody

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes	Morty		

Chain-of-Custody Record

Client: Vertex (Ace Fluids)

Mailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 24 hours

Project Name:

Prometheus

Project #:

23E-03329

Project Manager:

Sally Carttar

Sampler: Zach Englebert

On Ice: ☒ Yes ☐ No

of Coolers: /

Cooler Temp (including CF): $1.6 \pm 0 = 1.6$ ($^{\circ}\text{C}$)

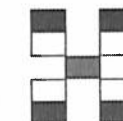
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
1-10-24	10 00	soil	WS23-155 0-4"	1 jar: 4oz.	ice	2401479 001
	10 10		WS23-156 0-4"			002
	10 20		WS23-157 0-4"			003
	10 30		WS23-158 0-4"			004
	10 40		WS23-159 0-4"			005
	10 50		WS23-160 0-4"			006
	11 00		WS23-161 0-4"			007
	11 10		WS23-162 0-4"			008
	11 20		WS23-163 0-4"			009
	11 30		BS23-164 4"			010
	11 40		BS23-165 4"			011
	11 50		BS23-166 4"			012

Date:	Time:	Relinquished by:
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Date:	Time:	Relinquished by:
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Received by:	Via:	Date	Time
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Received by:	Via:	Date	Time
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HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks: CC. Scarttar Gvertex. CA

Chain-of-Custody Record

Client: Vortex (Ace Fluids)

Mailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 24 hours

Project Name:

Prometheus

Project #:

23E-03329

Project Manager:

Sally Carttar

Sampler: Zach Englebert

On Ice: ☒ Yes ☐ No

of Coolers: 1 mostly

Cooler Temp(including CF): $1.6 \pm 0 = 1.6$ ($^{\circ}\text{C}$)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
						2401439

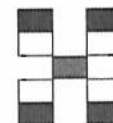
1-12-24	1200	5011	BS23-167	40	pce	11:40:402	013
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↓	1210	✓	WS23-168 0-4-	↓	↓	014
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Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
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Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
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[Handwritten signature] 1908 *[Handwritten signature]* *[Handwritten signature]* 1/12/24 10:52



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BIEX	MTBE / TMB's (8021)
TPH	8015D(GRO / DRO / MRO)
	8081 Pesticides/8082 PCB's
	EDB (Method 504.1)
	PAHs by 8310 or 8270SIMS
	RCRA 8 Metals
	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄
	8260 (VOA)
	8270 (Semi-VOA)
	Total Coliform (Present/Absent)

Remarks:	FL Scarttar Cagmail.com
----------	-------------------------



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 11, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2309H62

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/30/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2309H62

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-01 0-4'

Project: Prometheus

Collection Date: 9/28/2023 12:45:00 PM

Lab ID: 2309H62-001

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/3/2023 5:18:21 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/3/2023 5:18:21 PM
Surr: DNOP	111	69-147		%Rec	1	10/3/2023 5:18:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/5/2023 12:17:26 AM
Surr: BFB	89.8	15-244		%Rec	1	10/5/2023 12:17:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/5/2023 12:17:26 AM
Toluene	ND	0.048		mg/Kg	1	10/5/2023 12:17:26 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/5/2023 12:17:26 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/5/2023 12:17:26 AM
Surr: 4-Bromofluorobenzene	98.6	39.1-146		%Rec	1	10/5/2023 12:17:26 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	10/4/2023 8:57:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2309H62

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-02 0-4'

Project: Prometheus

Collection Date: 9/28/2023 12:45:00 PM

Lab ID: 2309H62-002

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/3/2023 5:39:35 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/3/2023 5:39:35 PM
Surr: DNOP	115	69-147		%Rec	1	10/3/2023 5:39:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/5/2023 1:04:25 AM
Surr: BFB	90.5	15-244		%Rec	1	10/5/2023 1:04:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	10/5/2023 1:04:25 AM
Toluene	ND	0.049		mg/Kg	1	10/5/2023 1:04:25 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/5/2023 1:04:25 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/5/2023 1:04:25 AM
Surr: 4-Bromofluorobenzene	99.6	39.1-146		%Rec	1	10/5/2023 1:04:25 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	10/4/2023 9:34:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2309H62

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-03 0-4'

Project: Prometheus

Collection Date: 9/28/2023 12:50:00 PM

Lab ID: 2309H62-003

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/3/2023 5:50:19 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/3/2023 5:50:19 PM
Surr: DNOP	120	69-147		%Rec	1	10/3/2023 5:50:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/5/2023 1:27:54 AM
Surr: BFB	90.1	15-244		%Rec	1	10/5/2023 1:27:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	10/5/2023 1:27:54 AM
Toluene	ND	0.050		mg/Kg	1	10/5/2023 1:27:54 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/5/2023 1:27:54 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/5/2023 1:27:54 AM
Surr: 4-Bromofluorobenzene	98.9	39.1-146		%Rec	1	10/5/2023 1:27:54 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	10/4/2023 9:46:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2309H62

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-04 0-4'

Project: Prometheus

Collection Date: 9/28/2023 12:50:00 PM

Lab ID: 2309H62-004

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/3/2023 6:01:07 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/3/2023 6:01:07 PM
Surr: DNOP	104	69-147		%Rec	1	10/3/2023 6:01:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/5/2023 1:51:23 AM
Surr: BFB	91.5	15-244		%Rec	1	10/5/2023 1:51:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	10/5/2023 1:51:23 AM
Toluene	ND	0.049		mg/Kg	1	10/5/2023 1:51:23 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/5/2023 1:51:23 AM
Xylenes, Total	ND	0.099		mg/Kg	1	10/5/2023 1:51:23 AM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	10/5/2023 1:51:23 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	360	59		mg/Kg	20	10/4/2023 9:58:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2309H62

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-05 0-4'

Project: Prometheus

Collection Date: 9/28/2023 12:55:00 PM

Lab ID: 2309H62-005

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/3/2023 6:11:56 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/3/2023 6:11:56 PM
Surr: DNOP	96.2	69-147		%Rec	1	10/3/2023 6:11:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/5/2023 2:14:48 AM
Surr: BFB	91.7	15-244		%Rec	1	10/5/2023 2:14:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/5/2023 2:14:48 AM
Toluene	ND	0.047		mg/Kg	1	10/5/2023 2:14:48 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/5/2023 2:14:48 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/5/2023 2:14:48 AM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	10/5/2023 2:14:48 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	10/4/2023 10:11:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2309H62
Date Reported: 10/11/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-06 0-4'
Project: Prometheus Collection Date: 9/28/2023 1:45:00 PM
Lab ID: 2309H62-006 Matrix: SOIL Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/3/2023 6:22:48 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/3/2023 6:22:48 PM
Surr: DNOP	97.8	69-147		%Rec	1	10/3/2023 6:22:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/5/2023 2:38:06 AM
Surr: BFB	92.0	15-244		%Rec	1	10/5/2023 2:38:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	10/5/2023 2:38:06 AM
Toluene	ND	0.046		mg/Kg	1	10/5/2023 2:38:06 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/5/2023 2:38:06 AM
Xylenes, Total	ND	0.092		mg/Kg	1	10/5/2023 2:38:06 AM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	10/5/2023 2:38:06 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	59		mg/Kg	20	10/4/2023 10:23:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2309H62

Date Reported: 10/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-07 0-4'

Project: Prometheus

Collection Date: 9/28/2023 1:05:00 PM

Lab ID: 2309H62-007

Matrix: SOIL

Received Date: 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/3/2023 6:33:44 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/3/2023 6:33:44 PM
Surr: DNOP	98.8	69-147		%Rec	1	10/3/2023 6:33:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/5/2023 3:01:37 AM
Surr: BFB	90.6	15-244		%Rec	1	10/5/2023 3:01:37 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/5/2023 3:01:37 AM
Toluene	ND	0.048		mg/Kg	1	10/5/2023 3:01:37 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/5/2023 3:01:37 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/5/2023 3:01:37 AM
Surr: 4-Bromofluorobenzene	99.1	39.1-146		%Rec	1	10/5/2023 3:01:37 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	10/4/2023 10:35:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309H62
11-Oct-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: MB-77946		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 77946		RunNo: 100228						
Prep Date: 10/4/2023		Analysis Date: 10/4/2023		SeqNo: 3669493			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-77946		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 77946		RunNo: 100228						
Prep Date: 10/4/2023		Analysis Date: 10/4/2023		SeqNo: 3669494			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309H62
11-Oct-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: LCS-77896	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 77896	RunNo: 100166								
Prep Date: 10/2/2023	Analysis Date: 10/3/2023	SeqNo: 3667641	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	10	50.00	0	123	61.9	130			
Surr: DNOP	6.1		5.000		122	69	147			

Sample ID: MB-77896	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 77896	RunNo: 100166								
Prep Date: 10/2/2023	Analysis Date: 10/3/2023	SeqNo: 3667643	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.5	69	147			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2309H62
11-Oct-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: ics-77889	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 77889			RunNo: 100206						
Prep Date: 10/2/2023	Analysis Date: 10/4/2023			SeqNo: 3669113		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.6	70	130			
Surr: BFB	1900		1000		193	15	244			

Sample ID: mb-77889	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 77889			RunNo: 100206						
Prep Date: 10/2/2023	Analysis Date: 10/4/2023			SeqNo: 3669115		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.3	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309H62
11-Oct-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: LCS-77889		SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS		Batch ID: 77889			RunNo: 100206					
Prep Date: 10/2/2023		Analysis Date: 10/4/2023			SeqNo: 3669239		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	70	130			
Toluene	1.0	0.050	1.000	0	103	70	130			
Ethylbenzene	1.0	0.050	1.000	0	104	70	130			
Xylenes, Total	3.1	0.10	3.000	0	104	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: mb-77889		SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS		Batch ID: 77889			RunNo: 100206					
Prep Date: 10/2/2023		Analysis Date: 10/4/2023			SeqNo: 3669240		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2309H62

RcptNo: 1

Received By: Tracy Casarrubias 9/30/2023 8:10:00 AM

Completed By: Tracy Casarrubias 9/30/2023 8:49:22 AM

Reviewed By: *TC 10/2/23*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: *(<2 or >12 unless noted)*
- Adjusted? *Checked by: TMC 9/30/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Mailing address, phone number and Email/Fax are missing on COC- TMC 9/30/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Yes	Yogi		



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

December 07, 2023

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2311C30

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 8 sample(s) on 11/28/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311C30

Date Reported: 12/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-101 0'-4'

Project: Prometheus

Collection Date: 11/17/2023 11:35:00 AM

Lab ID: 2311C30-001

Matrix: SOIL

Received Date: 11/28/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/30/2023 5:20:03 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/30/2023 5:20:03 PM
Surr: DNOP	99.5	69-147		%Rec	1	11/30/2023 5:20:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/29/2023 3:55:00 PM
Surr: BFB	102	15-244		%Rec	1	11/29/2023 3:55:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	11/29/2023 3:55:00 PM
Toluene	ND	0.046		mg/Kg	1	11/29/2023 3:55:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/29/2023 3:55:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	11/29/2023 3:55:00 PM
Surr: 4-Bromofluorobenzene	96.0	39.1-146		%Rec	1	11/29/2023 3:55:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	280	60		mg/Kg	20	11/30/2023 5:53:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311C30

Date Reported: 12/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-102 0'-4'

Project: Prometheus

Collection Date: 11/17/2023 11:35:00 AM

Lab ID: 2311C30-002

Matrix: SOIL

Received Date: 11/28/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/1/2023 9:43:44 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/1/2023 9:43:44 AM
Surr: DNOP	92.3	69-147		%Rec	1	12/1/2023 9:43:44 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/29/2023 4:16:00 PM
Surr: BFB	100	15-244		%Rec	1	11/29/2023 4:16:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/29/2023 4:16:00 PM
Toluene	ND	0.047		mg/Kg	1	11/29/2023 4:16:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/29/2023 4:16:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/29/2023 4:16:00 PM
Surr: 4-Bromofluorobenzene	96.2	39.1-146		%Rec	1	11/29/2023 4:16:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	340	60		mg/Kg	20	11/30/2023 1:10:22 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311C30

Date Reported: 12/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-103 0'-4'

Project: Prometheus

Collection Date: 11/17/2023 11:40:00 AM

Lab ID: 2311C30-003

Matrix: SOIL

Received Date: 11/28/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/1/2023 9:54:11 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/1/2023 9:54:11 AM
Surr: DNOP	111	69-147		%Rec	1	12/1/2023 9:54:11 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/29/2023 5:00:00 PM
Surr: BFB	102	15-244		%Rec	1	11/29/2023 5:00:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	11/29/2023 5:00:00 PM
Toluene	ND	0.046		mg/Kg	1	11/29/2023 5:00:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/29/2023 5:00:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	11/29/2023 5:00:00 PM
Surr: 4-Bromofluorobenzene	91.7	39.1-146		%Rec	1	11/29/2023 5:00:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	230	60		mg/Kg	20	11/30/2023 1:22:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311C30

Date Reported: 12/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-104 0'-4'

Project: Prometheus

Collection Date: 11/17/2023 11:45:00 AM

Lab ID: 2311C30-004

Matrix: SOIL

Received Date: 11/28/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/1/2023 10:04:37 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/1/2023 10:04:37 AM
Surr: DNOP	90.6	69-147		%Rec	1	12/1/2023 10:04:37 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/29/2023 5:21:00 PM
Surr: BFB	98.0	15-244		%Rec	1	11/29/2023 5:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	11/29/2023 5:21:00 PM
Toluene	ND	0.049		mg/Kg	1	11/29/2023 5:21:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/29/2023 5:21:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/29/2023 5:21:00 PM
Surr: 4-Bromofluorobenzene	91.9	39.1-146		%Rec	1	11/29/2023 5:21:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	120	60		mg/Kg	20	11/30/2023 1:35:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311C30

Date Reported: 12/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-105 0'-4'

Project: Prometheus

Collection Date: 11/17/2023 11:45:00 AM

Lab ID: 2311C30-005

Matrix: SOIL

Received Date: 11/28/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/1/2023 10:15:04 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/1/2023 10:15:04 AM
Surr: DNOP	90.7	69-147		%Rec	1	12/1/2023 10:15:04 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/29/2023 5:43:00 PM
Surr: BFB	99.6	15-244		%Rec	1	11/29/2023 5:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	11/29/2023 5:43:00 PM
Toluene	ND	0.049		mg/Kg	1	11/29/2023 5:43:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/29/2023 5:43:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/29/2023 5:43:00 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	11/29/2023 5:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	230	60		mg/Kg	20	11/30/2023 1:47:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311C30

Date Reported: 12/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-106 0'-4'

Project: Prometheus

Collection Date: 11/17/2023 11:45:00 AM

Lab ID: 2311C30-006

Matrix: SOIL

Received Date: 11/28/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/1/2023 10:25:32 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/1/2023 10:25:32 AM
Surr: DNOP	94.2	69-147		%Rec	1	12/1/2023 10:25:32 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/29/2023 6:05:00 PM
Surr: BFB	98.6	15-244		%Rec	1	11/29/2023 6:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	11/29/2023 6:05:00 PM
Toluene	ND	0.050		mg/Kg	1	11/29/2023 6:05:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/29/2023 6:05:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/29/2023 6:05:00 PM
Surr: 4-Bromofluorobenzene	94.1	39.1-146		%Rec	1	11/29/2023 6:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	110	60		mg/Kg	20	11/30/2023 2:00:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311C30

Date Reported: 12/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-107 0'-4'

Project: Prometheus

Collection Date: 11/17/2023 11:50:00 AM

Lab ID: 2311C30-007

Matrix: SOIL

Received Date: 11/28/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/1/2023 10:36:01 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/1/2023 10:36:01 AM
Surr: DNOP	94.6	69-147		%Rec	1	12/1/2023 10:36:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/29/2023 6:27:00 PM
Surr: BFB	106	15-244		%Rec	1	11/29/2023 6:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/29/2023 6:27:00 PM
Toluene	ND	0.047		mg/Kg	1	11/29/2023 6:27:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/29/2023 6:27:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/29/2023 6:27:00 PM
Surr: 4-Bromofluorobenzene	94.0	39.1-146		%Rec	1	11/29/2023 6:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	100	60		mg/Kg	20	11/30/2023 2:12:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311C30

Date Reported: 12/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-108 0'-4'

Project: Prometheus

Collection Date: 11/17/2023 11:45:00 AM

Lab ID: 2311C30-008

Matrix: SOIL

Received Date: 11/28/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/1/2023 10:46:30 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/1/2023 10:46:30 AM
Surr: DNOP	103	69-147		%Rec	1	12/1/2023 10:46:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/29/2023 6:48:00 PM
Surr: BFB	99.3	15-244		%Rec	1	11/29/2023 6:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/29/2023 6:48:00 PM
Toluene	ND	0.047		mg/Kg	1	11/29/2023 6:48:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/29/2023 6:48:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/29/2023 6:48:00 PM
Surr: 4-Bromofluorobenzene	93.0	39.1-146		%Rec	1	11/29/2023 6:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	190	60		mg/Kg	20	11/30/2023 2:49:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311C30
07-Dec-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: MB-79069	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 79069	RunNo: 101524
Prep Date: 11/30/2023	Analysis Date: 11/30/2023	SeqNo: 3737310 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-79069	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 79069	RunNo: 101524
Prep Date: 11/30/2023	Analysis Date: 11/30/2023	SeqNo: 3737311 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15	1.5 15.00 0 98.6 90 110

Sample ID: MB-79058	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 79058	RunNo: 101523
Prep Date: 11/29/2023	Analysis Date: 11/30/2023	SeqNo: 3737381 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-79058	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 79058	RunNo: 101523
Prep Date: 11/29/2023	Analysis Date: 11/30/2023	SeqNo: 3737382 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 92.0 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311C30

07-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2311C30-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: WS23-101 0'-4'	Batch ID: 79059	RunNo: 101517
Prep Date: 11/29/2023	Analysis Date: 11/30/2023	SeqNo: 3736819 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	40	9.0 45.21 0 87.9 54.2 135
Surr: DNOP	4.0	4.521 88.8 69 147

Sample ID: 2311C30-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: WS23-101 0'-4'	Batch ID: 79059	RunNo: 101517
Prep Date: 11/29/2023	Analysis Date: 11/30/2023	SeqNo: 3736821 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	40	9.4 47.04 0 85.7 54.2 135 1.42 29.2
Surr: DNOP	4.0	4.704 84.5 69 147 0 0

Sample ID: LCS-79059	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 79059	RunNo: 101517
Prep Date: 11/29/2023	Analysis Date: 11/30/2023	SeqNo: 3736831 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	51	10 50.00 0 103 61.9 130
Surr: DNOP	4.8	5.000 95.2 69 147

Sample ID: MB-79059	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 79059	RunNo: 101517
Prep Date: 11/29/2023	Analysis Date: 11/30/2023	SeqNo: 3736834 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND	10
Motor Oil Range Organics (MRO)	ND	50
Surr: DNOP	9.7	10.00 96.5 69 147

Sample ID: 2311C30-002AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: WS23-102 0'-4'	Batch ID: 79082	RunNo: 101534
Prep Date: 11/30/2023	Analysis Date: 12/1/2023	SeqNo: 3738230 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	42	9.6 48.22 0 86.1 54.2 135
Surr: DNOP	3.9	4.822 80.8 69 147

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311C30

07-Dec-23

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: 2311C30-002AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-102 0'-4'	Batch ID: 79082	RunNo: 101534								
Prep Date: 11/30/2023	Analysis Date: 12/1/2023	SeqNo: 3738231	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.9	49.60	0	102	54.2	135	19.7	29.2	
Surr: DNOP	4.9		4.960		98.6	69	147	0	0	

Sample ID: LCS-79082	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79082	RunNo: 101534								
Prep Date: 11/30/2023	Analysis Date: 12/1/2023	SeqNo: 3738243	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	61.9	130			
Surr: DNOP	4.7		5.000		94.3	69	147			

Sample ID: LCS-79098	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79098	RunNo: 101534								
Prep Date: 12/1/2023	Analysis Date: 12/1/2023	SeqNo: 3738244	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		78.6	69	147			

Sample ID: MB-79082	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79082	RunNo: 101534								
Prep Date: 11/30/2023	Analysis Date: 12/1/2023	SeqNo: 3738245	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	69	147			

Sample ID: MB-79098	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79098	RunNo: 101534								
Prep Date: 12/1/2023	Analysis Date: 12/1/2023	SeqNo: 3738246	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		81.9	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311C30

07-Dec-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: Ics-79020	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 79020	RunNo: 101489								
Prep Date: 11/28/2023	Analysis Date: 11/29/2023	SeqNo: 3735681		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.6	70	130			
Surr: BFB	2100		1000		206	15	244			

Sample ID: MB-79020	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 79020	RunNo: 101489								
Prep Date: 11/28/2023	Analysis Date: 11/29/2023	SeqNo: 3735682		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	15	244			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311C30
07-Dec-23

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: lcs-79020	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 79020			RunNo: 101489						
Prep Date: 11/28/2023	Analysis Date: 11/29/2023			SeqNo: 3735824		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.8	70	130			
Toluene	0.96	0.050	1.000	0	96.0	70	130			
Ethylbenzene	0.97	0.050	1.000	0	97.5	70	130			
Xylenes, Total	2.9	0.10	3.000	0	96.9	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	39.1	146			

Sample ID: mb-79020	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 79020			RunNo: 101489						
Prep Date: 11/28/2023	Analysis Date: 11/29/2023			SeqNo: 3735825		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	39.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2311C30

RcptNo: 1

Received By: Juan Rojas

11/28/2023 7:40:00 AM

Juan Rojas

Completed By: Tracy Casarrubias

11/28/2023 8:19:38 AM

Reviewed By: *JTC* 11-28-23Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *SCM* 11/28/23Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Mailing address, phone number and Email/Fax are missing on COC- TMC 11/28/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes	Morty		



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

January 30, 2024

Sally Carttar

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Prometheus

OrderNo.: 2401882

Dear Sally Carttar:

Eurofins Environment Testing South Central, LLC received 7 sample(s) on 1/23/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401882
Date Reported: 1/30/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-169 0-4'
Project: Prometheus Collection Date: 1/19/2024 8:35:00 AM
Lab ID: 2401882-001 Matrix: SOIL Received Date: 1/23/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/24/2024 8:13:56 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/24/2024 8:13:56 PM
Surr: DNOP	83.4	69-147		%Rec	1	1/24/2024 8:13:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/24/2024 3:00:00 PM
Surr: BFB	108	15-244		%Rec	1	1/24/2024 3:00:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/24/2024 3:00:00 PM
Toluene	ND	0.048		mg/Kg	1	1/24/2024 3:00:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/24/2024 3:00:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/24/2024 3:00:00 PM
Surr: 4-Bromofluorobenzene	99.7	39.1-146		%Rec	1	1/24/2024 3:00:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	71	60		mg/Kg	20	1/24/2024 9:01:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401882

Date Reported: 1/30/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-170 0-4'
Project: Prometheus Collection Date: 1/19/2024 8:40:00 AM
Lab ID: 2401882-002 Matrix: SOIL Received Date: 1/23/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/24/2024 8:37:48 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/24/2024 8:37:48 PM
Surr: DNOP	85.3	69-147		%Rec	1	1/24/2024 8:37:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/24/2024 4:06:00 PM
Surr: BFB	107	15-244		%Rec	1	1/24/2024 4:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/24/2024 4:06:00 PM
Toluene	ND	0.047		mg/Kg	1	1/24/2024 4:06:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/24/2024 4:06:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/24/2024 4:06:00 PM
Surr: 4-Bromofluorobenzene	98.6	39.1-146		%Rec	1	1/24/2024 4:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	1/24/2024 9:46:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401882-003

Client Sample ID: BS23-235 4'
Collection Date: 1/19/2024 8:55:00 AM
Received Date: 1/23/2024 8:15:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/24/2024 8:49:37 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/24/2024 8:49:37 PM
Surr: DNOP	83.2	69-147		%Rec	1	1/24/2024 8:49:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/24/2024 5:12:00 PM
Surr: BFB	101	15-244		%Rec	1	1/24/2024 5:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/24/2024 5:12:00 PM
Toluene	ND	0.046		mg/Kg	1	1/24/2024 5:12:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/24/2024 5:12:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	1/24/2024 5:12:00 PM
Surr: 4-Bromofluorobenzene	94.2	39.1-146		%Rec	1	1/24/2024 5:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	810	60		mg/Kg	20	1/24/2024 10:32:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Prometheus
Lab ID: 2401882-004

Client Sample ID: BS23-236 4'
Collection Date: 1/19/2024 9:00:00 AM
Received Date: 1/23/2024 8:15:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/24/2024 9:01:31 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/24/2024 9:01:31 PM
Surr: DNOP	86.2	69-147		%Rec	1	1/24/2024 9:01:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/24/2024 5:34:00 PM
Surr: BFB	106	15-244		%Rec	1	1/24/2024 5:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/24/2024 5:34:00 PM
Toluene	ND	0.048		mg/Kg	1	1/24/2024 5:34:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/24/2024 5:34:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/24/2024 5:34:00 PM
Surr: 4-Bromofluorobenzene	95.6	39.1-146		%Rec	1	1/24/2024 5:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	430	60		mg/Kg	20	1/24/2024 10:47:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 4 of 11

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401882
Date Reported: 1/30/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-237 4'
Project: Prometheus Collection Date: 1/19/2024 9:05:00 AM
Lab ID: 2401882-005 Matrix: SOIL Received Date: 1/23/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/24/2024 9:13:23 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/24/2024 9:13:23 PM
Surr: DNOP	87.2	69-147		%Rec	1	1/24/2024 9:13:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/24/2024 5:56:00 PM
Surr: BFB	113	15-244		%Rec	1	1/24/2024 5:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/24/2024 5:56:00 PM
Toluene	ND	0.047		mg/Kg	1	1/24/2024 5:56:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/24/2024 5:56:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/24/2024 5:56:00 PM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	1/24/2024 5:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	700	60		mg/Kg	20	1/24/2024 11:02:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401882
Date Reported: 1/30/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-238 4'
Project: Prometheus Collection Date: 1/19/2024 9:10:00 AM
Lab ID: 2401882-006 Matrix: SOIL Received Date: 1/23/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/24/2024 9:25:18 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/24/2024 9:25:18 PM
Surr: DNOP	86.0	69-147		%Rec	1	1/24/2024 9:25:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/24/2024 6:18:00 PM
Surr: BFB	106	15-244		%Rec	1	1/24/2024 6:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/24/2024 6:18:00 PM
Toluene	ND	0.046		mg/Kg	1	1/24/2024 6:18:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/24/2024 6:18:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	1/24/2024 6:18:00 PM
Surr: 4-Bromofluorobenzene	93.3	39.1-146		%Rec	1	1/24/2024 6:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	2300	150		mg/Kg	50	1/25/2024 12:14:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2401882
Date Reported: 1/30/2024

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-239 4'
Project: Prometheus Collection Date: 1/19/2024 9:15:00 AM
Lab ID: 2401882-007 Matrix: SOIL Received Date: 1/23/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/24/2024 9:37:08 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/24/2024 9:37:08 PM
Surr: DNOP	86.8	69-147		%Rec	1	1/24/2024 9:37:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/24/2024 6:40:00 PM
Surr: BFB	103	15-244		%Rec	1	1/24/2024 6:40:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/24/2024 6:40:00 PM
Toluene	ND	0.047		mg/Kg	1	1/24/2024 6:40:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/24/2024 6:40:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/24/2024 6:40:00 PM
Surr: 4-Bromofluorobenzene	93.5	39.1-146		%Rec	1	1/24/2024 6:40:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1400	60		mg/Kg	20	1/24/2024 11:33:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401882

30-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-80079	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 80079	RunNo: 102655								
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3793216	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-80079	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 80079	RunNo: 102655								
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3793217	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.1	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401882

30-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: MB-80076	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 80076	RunNo: 102657								
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3793415	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		84.6	69	147			

Sample ID: LCS-80076	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 80076	RunNo: 102657								
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3793416	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	40	10	50.00	0	80.9	61.9	130			
Surr: DNOP	4.4		5.000		88.4	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401882
30-Jan-24

Client: Vertex Resources Services, Inc.
Project: Prometheus

Sample ID: ics-80058	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 80058	RunNo: 102685								
Prep Date: 1/23/2024	Analysis Date: 1/24/2024	SeqNo: 3793629		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	70	130			
Surr: BFB	2300		1000		233	15	244			

Sample ID: mb-80058	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 80058	RunNo: 102685								
Prep Date: 1/23/2024	Analysis Date: 1/24/2024	SeqNo: 3793630		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	15	244			

Sample ID: 2401882-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: WS23-169 0-4'	Batch ID: 80058	RunNo: 102685								
Prep Date: 1/23/2024	Analysis Date: 1/24/2024	SeqNo: 3793632		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.7	23.65	0	118	70	130			
Surr: BFB	2400		946.1		249	15	244			S

Sample ID: 2401882-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: WS23-169 0-4'	Batch ID: 80058	RunNo: 102685								
Prep Date: 1/23/2024	Analysis Date: 1/24/2024	SeqNo: 3793633		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	23.81	0	114	70	130	2.34	20	
Surr: BFB	2300		952.4		242	15	244	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 11

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401882

30-Jan-24

Client: Vertex Resources Services, Inc.

Project: Prometheus

Sample ID: Ics-80058	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 80058	RunNo: 102685								
Prep Date: 1/23/2024	Analysis Date: 1/24/2024	SeqNo: 3793656		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	70	130			
Toluene	1.0	0.050	1.000	0	101	70	130			
Ethylbenzene	1.0	0.050	1.000	0	103	70	130			
Xylenes, Total	3.1	0.10	3.000	0	104	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	39.1	146			

Sample ID: mb-80058	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 80058	RunNo: 102685								
Prep Date: 1/23/2024	Analysis Date: 1/24/2024	SeqNo: 3793657		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	39.1	146			

Sample ID: 2401882-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: WS23-170 0-4'	Batch ID: 80058	RunNo: 102685								
Prep Date: 1/23/2024	Analysis Date: 1/24/2024	SeqNo: 3793660		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.023	0.9363	0	115	70	130			
Toluene	1.1	0.047	0.9363	0	115	70	130			
Ethylbenzene	1.1	0.047	0.9363	0	118	70	130			
Xylenes, Total	3.3	0.094	2.809	0	119	70	130			
Surr: 4-Bromofluorobenzene	0.92		0.9363		98.0	39.1	146			

Sample ID: 2401882-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: WS23-170 0-4'	Batch ID: 80058	RunNo: 102685								
Prep Date: 1/23/2024	Analysis Date: 1/24/2024	SeqNo: 3793661		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.023	0.9381	0	109	70	130	5.30	20	
Toluene	1.0	0.047	0.9381	0	109	70	130	4.91	20	
Ethylbenzene	1.0	0.047	0.9381	0	112	70	130	5.40	20	
Xylenes, Total	3.2	0.094	2.814	0	113	70	130	5.09	20	
Surr: 4-Bromofluorobenzene	0.90		0.9381		95.7	39.1	146	0	0	

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit



Environment Testin

Eurofins Environment Testing South

Central, LLC

4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2401882

RcptNo: 1

Received By: Joseph Alderette 1/23/2024 8:15:00 AM

Completed By: Desiree Dominguez 1/23/2024 8:33:37 AM

Reviewed By: TMC 1/23/24

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: JA 1-23-24Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:


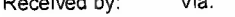


17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Vertex	<input type="checkbox"/> Standard X Rush_72-hour rush
	Project Name:
Mailing Address:	Prometheus
	Project #:
Phone #:	23E-03329
email or Fax#:	Project Manager:
QA/QC Package:	Sally Carttar
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)	
Accreditation: <input type="checkbox"/> Az Compliance	Sampler: L. Pullman
<input type="checkbox"/> NELAC <input type="checkbox"/> Other _____	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> EDD (Type) _____	# of Coolers: 1

Date	Time	Matrix	Sample Name	Cooler Temp (including CF): 3.8 + 0.2 = 4.0°C Logi		
				Container Type and #	Preservative Type	HEAL No. 2401882
01/19/24	8:35	Soil	WS23-169 0-4'	1, 4oz jar		-001
01/19/24	8:40	Soil	WS23-170 0-4'	1, 4oz jar		-002
01/19/24	8:55	Soil	BS23-235 4'	1, 4oz jar		-003
01/19/24	9:00	Soil	BS23-236 4'	1, 4oz jar		-004
01/19/24	9:05	Soil	BS23-237 4'	1, 4oz jar		-005
01/19/24	9:10	Soil	BS23-238 4'	1, 4oz jar		-006
01/19/24	9:15	Soil	BS23-239 4'	1, 4oz jar		-007

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1-20-24	07:00				1-22-24	10:15
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1-22-24	19:00			covered	1-23-24	8:15

[illegible]

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 312856

QUESTIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID:	372043
	Action Number:	312856
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2226241849
Incident Name	NAPP2226241849 PROMETHEUS FRAC LINE @ 30-025-41139
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-41139] JACKSON UNIT #020H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PROMETHEUS FRAC LINE
Date Release Discovered	09/12/2022
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Flow Line - Production Produced Water Released: 3,249 BBL Recovered: 240 BBL Lost: 3,009 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I
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Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 312856

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 312856
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Chance Dixon Title: Project Manager Email: cdixon@vertex.ca Date: 02/08/2024

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QUESTIONS, Page 3

Action 312856

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 312856
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between ½ and 1 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	2400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	06/12/2023
On what date will (or did) the final sampling or liner inspection occur	06/12/2023
On what date will (or was) the remediation complete(d)	01/19/2024
What is the estimated surface area (in square feet) that will be reclaimed	118630
What is the estimated volume (in cubic yards) that will be reclaimed	11476
What is the estimated surface area (in square feet) that will be remediated	76117
What is the estimated volume (in cubic yards) that will be remediated	11476
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 312856

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID:	372043
	Action Number:	312856
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Chance Dixon Title: Project Manager Email: cdixon@vertex.ca Date: 02/08/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 312856

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 312856
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 312856

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID:
	372043
	Action Number:
	312856
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	303846
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/19/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	76117
What was the total volume (cubic yards) remediated	11476
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	118630
What was the total volume (in cubic yards) reclaimed	11476
Summarize any additional remediation activities not included by answers (above)	Areas reasonably needing attention in the vicinity of the release were delineated to NMOC's strictest closure criteria. No additional remedial activities were required outside of the release area.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Chance Dixon Title: Project Manager Email: cdixon@vertex.ca Date: 02/08/2024
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QUESTIONS, Page 7

Action 312856

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 312856
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 312856

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 312856
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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/1/2024