



Incident Numbers:

nKJ1516742526, nRM2014559127

Amended Deferral Request

SDE 31 Federal CTB

Section 31, Township 23 South, Range 32 East

Facility ID: fAPP2202233942

API: 30-025-32716

County: Lea

Vertex File Number: 24E-01499

Prepared for:

Devon Energy Production Company, LP

Prepared by:

Vertex Resource Services Inc.

Date:

May 2026

Devon Energy Production Company, LP
SDE 31 Federal CTB

Amended Deferral Request
July 2026

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Section 31, Township 23 South, Range 32 East
Facility ID: fAPP2202233942
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County: Lea

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July 9, 2026

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July 9, 2026

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1.0 Addressal of Recent Denials

1.1 Closure Denial 2026 and Variance Request

On July 8, 2026 Vertex on behalf of Devon received an additional denial for application 594688.

"Amended Deferral Request is denied based on the following: 1. The following sample points: BS25-07, BS25-08, BS25-10, BS25-11, BS25-12 and WS25-09 have not been fully delineated at depth to be considered for deferral."

As shown in Table 5 and Figure 4, samples BS25-10, BS25-11, BS25-12 and WS25-09 were vertically delineated to strictest criteria on May 2 and May 3, 2026. BS25-07 and BS25-08 are unable to be excavated or further delineated due to a shallow refusal with a hand auger and being unable to safely navigate equipment into the area. As stated in the email correspondence from January 29: "If cables, piping or other on-pad equipment area at risk of being damaged, sample points as close as possible to these points will be accepted for consideration". The line strike that occurred on May 2, 2026, established that the areas cannot safely be delineated further without risk to human safety and equipment.

As such Vertex on behalf of Devon would like to request a variance request for the closest safely obtainable points -- boreholes BH23-09 and BS25-10 as well as Base Sample BS25-09-- to fulfill the requirement of full delineation with respect to BS25-07 and BS25-08. Given the contamination is adequately defined in the surrounding areas and a depth to groundwater greater is than 100 ft, acceptance of this variance poses no greater risk to human health, groundwater, or the environment. Upon acceptance of this variance, all metrics are met for deferral to be granted.

Please contact Kent Stallings at 346 814-1413 or kstallings@vertexresource.com for any additional questions or concerns.

1.2 Closure Denials 2025

On November 4, 2025, the Oil Conservation Division (OCD) denied Devon Energy Production Company, LP (Devon) applications 518305 and 518387 for a deferral on incidents nKJ1516742526 and nRM2014559127 respectively. The denial states "Deferral and Remediation Closure is denied. Deferral sample points: BS25-07, BS25-08, BS25-10, BS25-11, BS25-12 and WS25-09 have not been fully delineated vertically to be approved for deferral. Fully delineate these points as demonstrated on figure 4 and resubmit within 30 days from receipt of this denial." In response, Vertex Resource Services Inc. (Vertex) updated Figure 4 to include vertical delineation points BH23-09 and BH23-11 and added Table 5 as an analytic reference to the points highlighted on Figure 4. The updated report was submitted on December 4, 2025 and rejected on December 29, 2025. The denial statement listed similar reasons to the first denial. Email correspondence with the regulators that took place after the second denial confirmed next steps. The correspondence can be found in Appendix D.

1.3 Additional Delineation and Line Strike

Based on the denials and correspondence with the regulators, Vertex attempted to get a vertical borehole to strictest criteria inside each deferral point area. Due to a rock layer, personnel were unable to collect the additional boreholes

using hand tools. Vertex then took detailed measurements of the area to identify points that would be safe to use equipment. An effort was made to hire equipment that would be powerful enough to break through the rock layer, small enough to navigate the tight space, and nimble enough to avoid damaging any production equipment. Field testing proved it to be impossible for equipment to meet all three criteria.

Work was stopped at 10:30am on May 2, 2026 due to a line strike. Before the line strike occurred, four of the six deferral points were vertically delineated. The line strike highlighted that due to the density of equipment and the potential for undetectable lines, no equipment can safely be used in the area. As such, the final two deferral points cannot be delineated. In addition, this line strike emphasizes that the area must be deferred as further excavation cannot safely occur.

There are six boreholes to strictest criteria present in the bermed area collected as close to the deferral points as possible. The additional delineation boreholes collected on May 1 and May 2, 2026 were collected as discrete samples named with the same naming convention as the deferral point they're located at. For example, deferral point BS25-10 has a composite confirmation sample at 0.5ft bgs that needs to be deferred, and a borehole named BS25-10 with discrete samples that vertically delineates that deferral point. Vertex believes six boreholes to strictest criteria should be sufficient information to defer a 611 sq ft area that contains undetectable lines. See figure 4 and table 5 for additional information on the deferral area.

2.0 Introduction

Devon retained Vertex to conduct a Release Assessment and Closure for crude oil and produced water releases that occurred on June 13, 2015, and December 30, 2019, at the SDE 31 Federal CTB, Facility ID: fAPP2202233942 (hereafter referred to as the "site"). One of the releases is associated with SDE 31 Federal #004, API: 30-025-32716. Devon submitted initial C-141 Release Notifications to New Mexico Oil Conservation Division (NMOCD) District 2 on June 16, 2015, and May 24, 2020. Incident ID numbers NKJ1516742526 and nRM2014559127 were assigned to these incidents.

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 deferral of this release, with the understanding that restoration of the release site will be completed following remediation activities and deferred until such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

3.0 Incident Description

The first release (nKJ1516742526) occurred on June 13, 2015, due to external corrosion on a flowline. The incident was reported on June 16, 2015, and involved the release of approximately 4.36 barrels (bbl.) of oil and approximately 29.2 bbl. of produced water within the earthen berm containment. Approximately 30 bbl. of free fluid was removed during initial clean-up. The second release (nRM2014559127) occurred on December 30, 2019, at the SDE 31 Federal

CTB, due to a release from a down water transfer pump and the tank begin to run over. The incident was reported on May 24, 2020, and involved the release of approximately 27.2 bbl. of oil within the earthen berm containment. Approximately 2.2 bbl. of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

4.0 Site Characteristics

The site is located approximately 20.5 miles east of Malaga, New Mexico. The legal location for the site is Section 31, Township 23 South and Range 32 East in Lea County, New Mexico. The release area is located on Bureau of Land Management property. 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 and storage. The following sections specifically describe the release area on constructed pad (Figure 1).

The surrounding landscape is associated with Loamy Sand with elevations ranging between 2,800 and 5,000 feet. The climate is semiarid with average annual precipitation ranging between 8 and 13 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses: black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*) (Ecological). Grasses with shrubs and half-shrubs, shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*), dominate the historical plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

The surface geology at the site primarily comprises Qa – Alluvium from the Holocene to upper Pleistocene ages (New Mexico Bureau of Geology and Mineral Resources, 2025) and the soil at the site is characterized as Pyote and Maljamar fine sands (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Additional soil characteristics include a drainage class of well drained with a negligible runoff class. The karst geology potential for the site is Low (Geomatics; United States Department of the Interior, Bureau of Land Management, 2018).

5.0 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 on March 9, 2023, and completed the same day. The borehole was advanced to a depth of 55 feet. The borehole was left to recharge as per the requirements on the WR-07 Application for Permit to Drill a Well with No Water Rights, and an interface probe was utilized to determine whether groundwater was present at the conclusion of the 72-hour recharge period. No water was found to be present at that time. The borehole was plugged and abandoned according to the WR-08 permit, Well Plugging Plan of Operations, filed with NMOSE. The borelog for this depth to groundwater borehole is included in Appendix A.

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At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is the Pecos River (National Wetlands Inventory) located approximately 15.9 miles west of the site (United States Fish and Wildlife Service, 2025). There is a wetland (National Wetlands Inventory) located approximately 1.5 miles southeast of the site (United States Fish and Wildlife Service, 2025).

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Table 1. Closure Criteria Determination			
Site Name: SDE 31 FED CTB			
Spill Coordinates: 32.26464683, -103.716411		X: UTM easting	Y: UTM northing
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	>55	feet
	Distance between release and nearest DTGW reference	675	feet
		0.13	miles
	Date of nearest DTGW reference measurement	March 9, 2023	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	84,092	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	70,479	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	21,893	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	-	feet
	ii) Within 1000 feet of any fresh water well or spring	2,074	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	8,145	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	60731 ft / 11.5 miles	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	37,464	feet
10	Within a 100-year Floodplain	500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	65,506	feet
11	Soil Type	PU	
12	Ecological Classification	Loamy sand	
13	Geology	Qa	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	<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 Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
51 feet - 100 feet	Chloride	10,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics

BTEX – benzene, toluene, ethylbenzene and xylenes

6.0 Remedial Actions Taken

6.1 Closure Denial 2020

An initial site inspection for the release, nRM2014559127, was completed on January 20, 2020, which identified the area of the release specified in the initial C-141 Report. The estimated volume of the release area was determined to be approximately 1,462 square feet and was excavated 1 to 2 feet. On August 11, 2020, the closure request for this incident was submitted and denied due to incorrectly assessed depth to ground water determination. Since that time, depth to groundwater determination has been established within 0.5 miles and is no more than 25 years old. An additional overlapping release was also identified within the boundaries of the open release. These two releases were consolidated for remediation and reporting purposes.

6.2 Subsequent Remedial Actions Taken

A site inspection for releases nKJ1516742526 and nRM2014559127 was completed on March 7, 2023, which identified the area of the release specified in the initial C-141 Report. Delineation of the release area was estimated to be a total affected area of 27,296 square feet (Figure 1). The Daily Field Report (DFR) associated with the site inspection is included in Appendix B. Characterization sampling results are included in Table 3.

Remediation efforts began on August 19, 2025, and were finalized on September 11, 2025. Vertex personnel supervised the excavation of impacted soils. Field screening was completed to guide excavation and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dextsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and electrical conductivity and silver nitrate titration (chlorides). Field screening results were used to identify areas requiring further remediation. Soils were removed to a depth of 0.5 to 2.5 feet below ground surface (bgs)(Figure 3). Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Field screening results and DFRs documenting various phases of the remediation are presented in Appendix B.

Notification that confirmatory samples were being collected was provided to the NMOCD on August 18, 20, 21, 25 and 26, 2025, and September 9, 2025. Confirmatory composite samples, each representative of no more than 200 square feet, were collected from the base and walls of the excavations (Figure 2). Due to the size of the release area, a variance of confirmation samples to be collected representative of no more than 400 square feet in areas in the remainder of the release extent was approved from the work plan. A total of 102 samples, in addition to one backfill sample, were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Eurofins Environment Testing (formerly known as 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 C. With the exception of six confirmatory samples presented on Figure 4, all confirmatory samples collected and analyzed were below closure criteria for the site.

6.3 Subsequent Delineation Actions Taken

Boreholes were collected at deferral points WS25-09, BS25-10, BS25-11, and BS25-12 in 1ft increments beginning at 1ft bgs until a sample below strictest criteria was found. Strictest criteria was found to be at 9ft bgs, 8ft bgs, 1ft bgs, and 8ft bgs respectively. No exceedances to closure criteria were found in additional delineation.

7.0 Deferral Request

On behalf of Devon, Vertex requests deferral of the portions of the release that are designated in proximity to dense equipment and is deemed unsafe for continued excavation of contaminated materials within the containment area. Facility deconstruction will be required to complete remediation of the release.

The release and deferral areas were fully delineated, do not pose an imminent risk to human health, the environment, or groundwater, and were backfilled with local soils by October 1, 2025. 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 location, “51 to 100 feet to groundwater” in Table 2, except for samples BS25-07, BS25-08, BS25-10, BS25-11, BS25-12 and WS25-09. These samples have been fully delineated vertically and horizontally. Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.

7.1 Deferral Area

Vertex recommends no additional remedial action at this time to address the releases at the site until the equipment on-site is decommissioned and removed. No additional delineation or excavation can be completed without substantial risk to human health, the environment, and facility operations. The deferral area is fully delineated with laboratory analysis of the final confirmatory samples (WS25-07, WS25-08, WS25-10, WS25-11, and WS25-12), horizontal delineation samples (BH20-01, BH23-37, BH24-03, BH24-06, BH24-07 and BH24-08) collected outside the deferral request area; and vertical delineation (BH23-09, BH23-11, WS25-09, BS25-10, BS25-11, and BS25-12) collected inside the bermed area showed constituent of concern concentration levels below NMOCD closure criteria for areas where depth to groundwater is greater than 50 feet bgs as shown in Table 3 and 4, respectively.

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Deferral areas are identified on Figure 4. The remaining contaminated materials were localized to the pad in immediate proximity of production equipment and infrastructure.

Should you have any questions or concerns, please do not hesitate to contact Kent Stallings at 346 814-1413 or kstallings@vertexresource.com.

7.0 References

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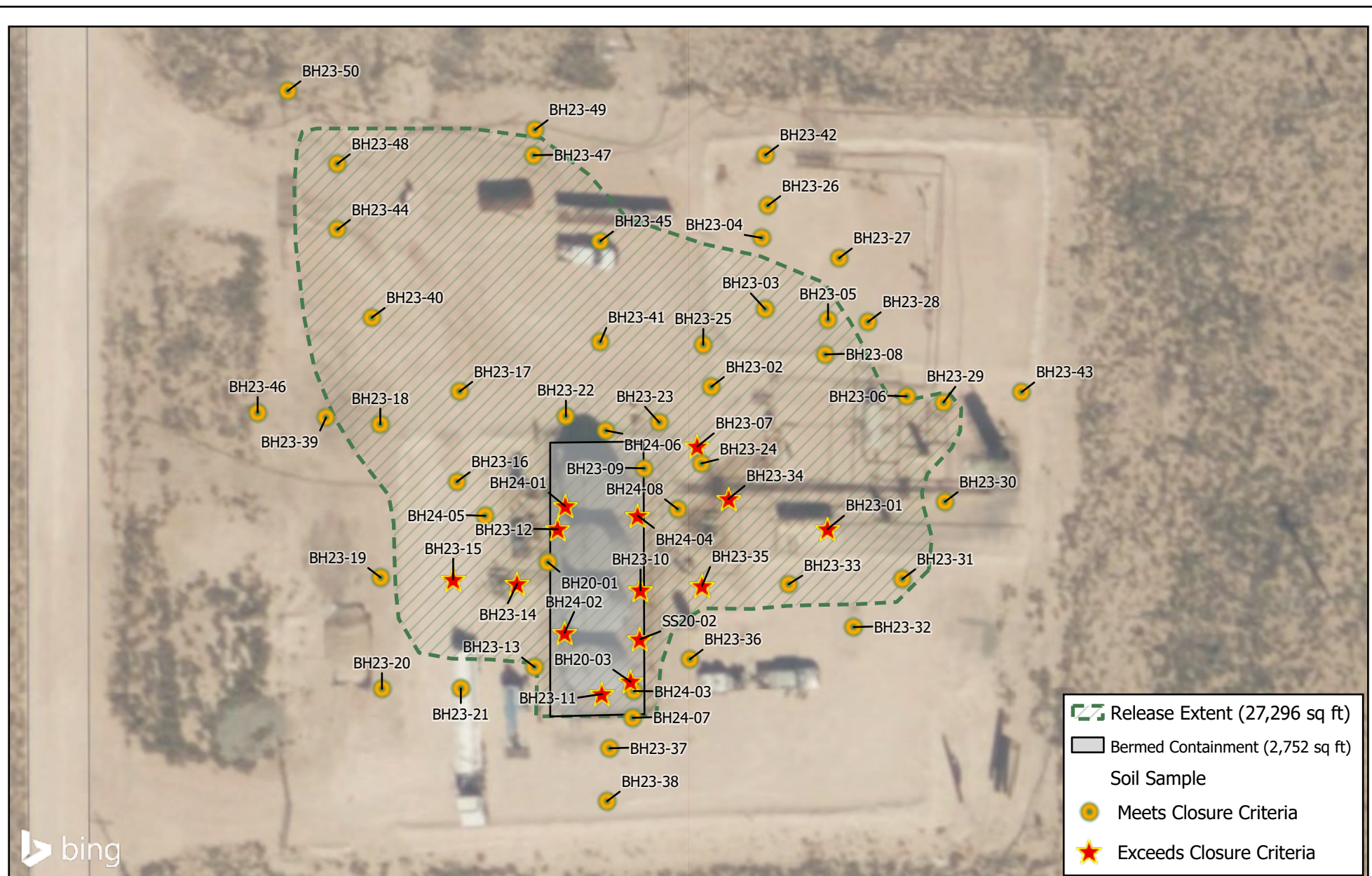
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8.0 Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company, LP. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon Energy Production Company, LP. 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



0 20 40 ft
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.264698°N, 103.716421°W
Date: May 15/25



Characterization Sample Site Schematic SDE 31 Federal CTB

FIGURE:

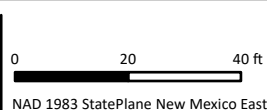
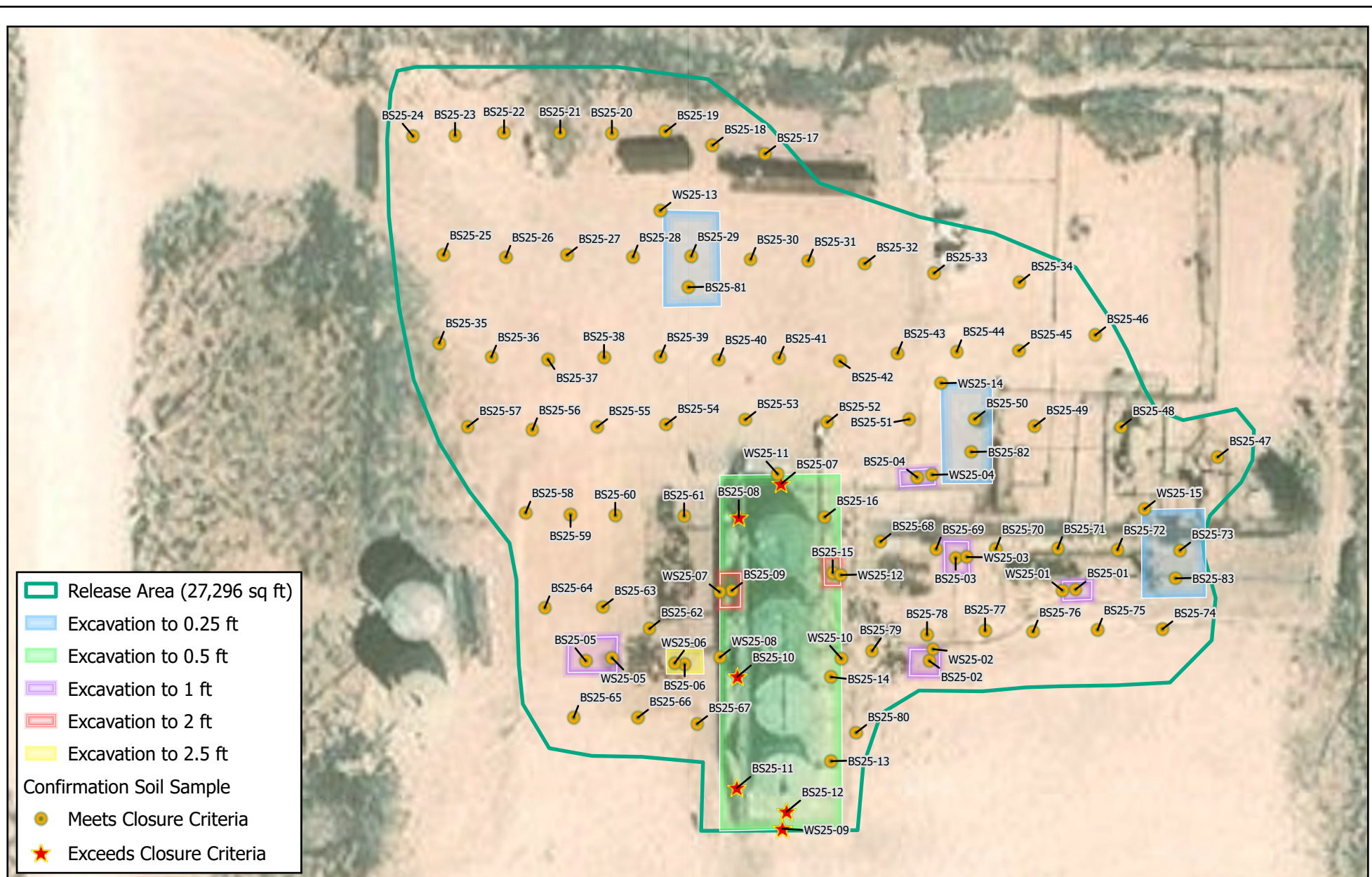
1



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Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

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Confirmation Sample Site Schematic SDE 31 Federal CTB

FIGURE:

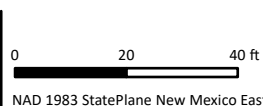
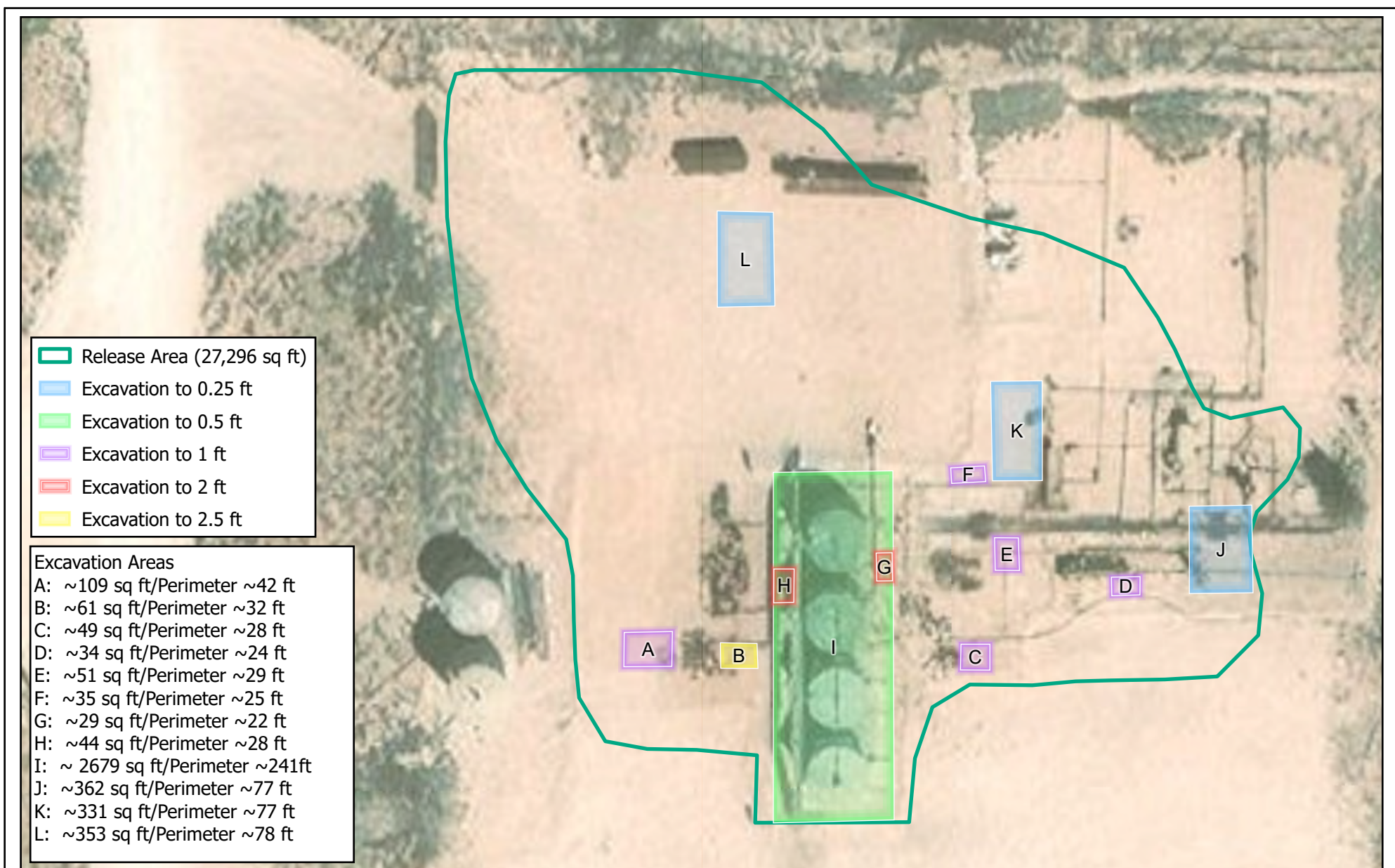
2



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Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.



Map Center:
Lat/Long: 32.264728°N, 103.716627°W

Date: Sep 25/25



Excavation Area Schematic SDE 31 Federal CTB

FIGURE:

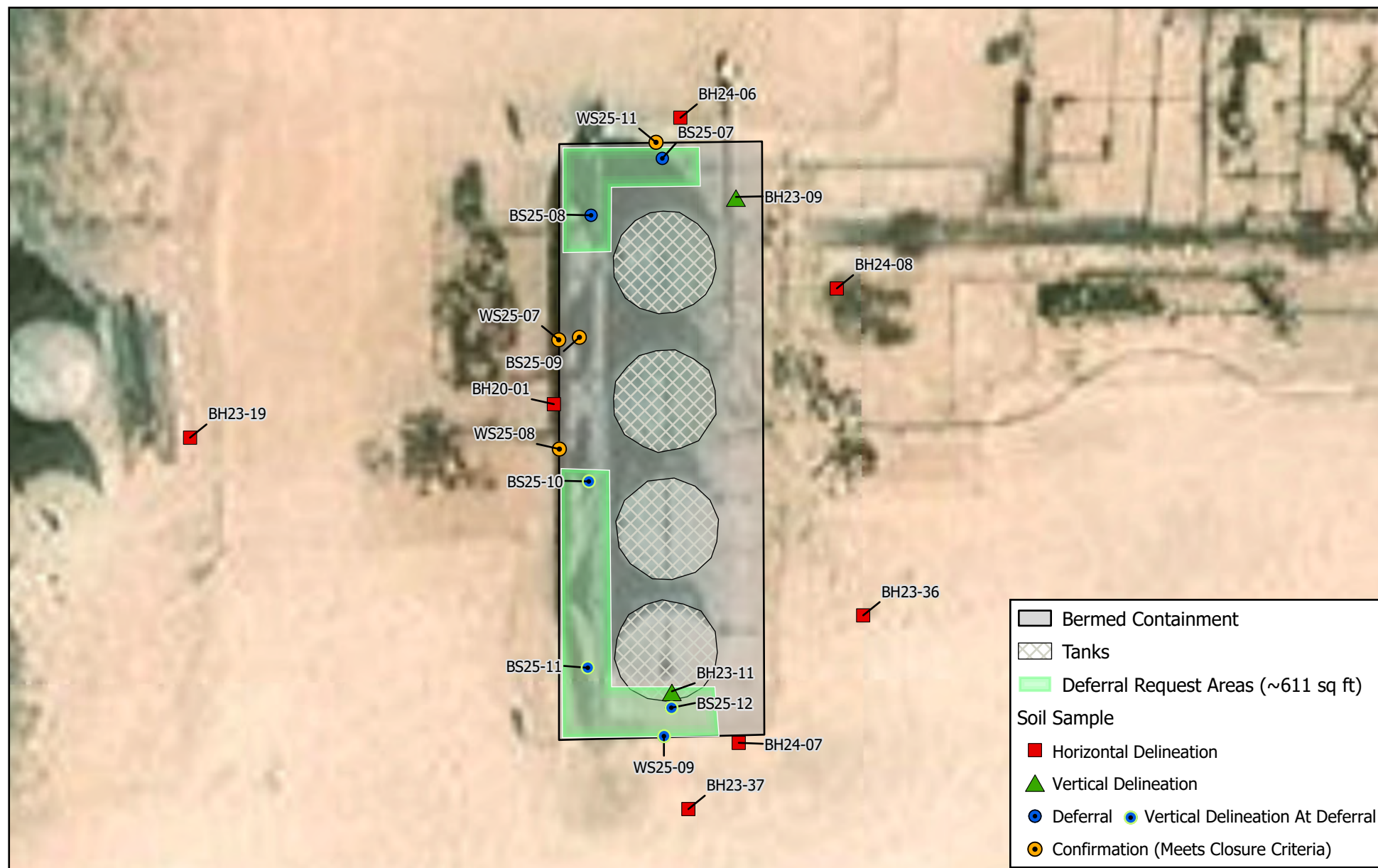
3



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, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.



0 10 20 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.264585°N, 103.716501°W

Date: Nov 08/25



Deferral Request Schematic SDE 31 Fed CTB (SDE 31 FED 4)

FIGURE:

4



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, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.

TABLES

Client Name: Devon Energy Production Company, LP

Site Name: SDE 31 Federal CTB

NM OCD Tracking #: nKJ1516742526, nRM2014559127

Project #: 24E-01499

Lab Reports: 2001883, 2303491, 2303583, 2307350, 2307361, 2307362, 2307446, 2307525, 885-2613, and 885-48761-32

Table 3. Characterization Sample Laboratory Results - Depth to Groundwater 51-100 feet bgs

Table 3. Characterization Sample Laboratory Results - Depth to Groundwater 51-100 feet bgs										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
Initial Delineation										
BH20-01	2	January 20, 2020	ND	ND	ND	59	ND	59	59	920
SS20-02	0	January 20, 2020	1	91	980	20,000	9,900	20,980	30,880	120
BH20-03	1	January 20, 2020	1	71	1,000	6,400	2,500	7,400	9,900	120
	2	January 20, 2020	ND	2	54	650	300	704	1,004	94
BH23-01	0	March 7, 2023	ND	ND	ND	2,200	1,600	2,200	3,800	160
	2	March 7, 2023	ND	ND	ND	ND	ND	ND	ND	62
BH23-02	0	March 7, 2023	ND	ND	ND	270	270	270	540	110
	2	March 7, 2023	ND	ND	ND	ND	ND	ND	ND	90
BH23-03	0	March 7, 2023	ND	ND	ND	ND	ND	ND	ND	1,600
	2	March 7, 2023	ND	ND	ND	ND	ND	ND	ND	1,900
	4	March 8, 2023	ND	ND	ND	ND	ND	ND	ND	1,000
	5	March 8, 2023	ND	ND	ND	ND	ND	ND	ND	810
BH23-04	0	March 7, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 7, 2023	ND	ND	ND	ND	ND	ND	ND	99
BH23-05	0	March 7, 2023	ND	ND	ND	ND	ND	ND	ND	2,400
	2	March 7, 2023	ND	ND	ND	540	420	540	960	3,100
	4	March 8, 2023	ND	ND	ND	ND	ND	ND	ND	3,500
	5	March 8, 2023	ND	ND	ND	150	120	150	270	3,300
BH23-06	0	March 7, 2023	ND	ND	ND	ND	ND	ND	ND	260
	2	March 7, 2023	ND	ND	ND	ND	ND	ND	ND	210
	4	March 8, 2023	ND	ND	ND	ND	ND	ND	ND	110
BH23-07	0	March 8, 2023	ND	ND	ND	1,300	1,500	1,300	2,800	120
	2	March 8, 2023	ND	ND	ND	100	120	100	220	71
BH23-08	0	July 9, 2023	ND	ND	ND	700	630	700	1,330	820
	2	July 9, 2023	ND	ND	ND	440	330	440	770	1,200
	4	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	1,900
BH23-09	0	July 9, 2023	ND	ND	ND	220	220	220	440	1,700
	2	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	600
	4	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	130
	6	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	120
BH23-10	0	July 9, 2023	ND	ND	ND	21,000	7,400	21,000	28,400	180
	2	July 9, 2023	ND	ND	ND	990	560	990	1,550	ND
	4	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	66
BH23-11	0	July 9, 2023	ND	ND	ND	9,400	3,000	9,400	12,400	75
	2	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	4	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	6	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-12	0	July 10, 2023	ND	ND	93	14,000	7,100	14,093	21,193	810
	2	July 10, 2023	ND	ND	11	6,800	2,500	6,811	9,311	750
	4	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	920

Client Name: Devon Energy Production Company, LP

Site Name: SDE 31 Federal CTB

NM OCD Tracking #: nKJ1516742526, nRM2014559127

Project #: 24E-01499

Lab Reports: 2001883, 2303491, 2303583, 2307350, 2307361, 2307362, 2307446, 2307525, 885-2613, and 885-48761-32

Table 3. Characterization Sample Laboratory Results - Depth to Groundwater 51-100 feet bgs

Table 3. Characterization Sample Laboratory Results - Depth to Groundwater 51-100 feet bgs										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
BH23-13	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	100
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	4	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-14	0	July 10, 2023	ND	ND	ND	620	480	620	1,100	18,000
	2	July 10, 2023	ND	ND	ND	1,600	1,700	1,600	3,300	5,800
	4	July 10, 2023	ND	ND	ND	120	120	120	240	4,900
BH23-15	0	July 10, 2023	ND	ND	ND	55	78	55	133	21,000
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	420
	3	July 10, 2023	ND	ND	ND	11	ND	11	11	1,700
BH23-16	0	July 10, 2023	ND	ND	ND	170	150	170	320	9,900
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	520
	4	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	2,300
BH23-17	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	2,300
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	2,100
BH23-18	0	July 10, 2023	ND	ND	ND	720	370	720	1,090	1,700
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	170
BH23-19	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	160
BH23-20	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	160
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	410
BH23-21	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	220
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-22	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	640
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	86
BH23-23	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	8,700
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	280
BH23-24	0	July 10, 2023	ND	ND	ND	160	130	160	290	220
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	460
BH23-25	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	440
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	1,000
BH23-26	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	280
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	190
BH23-27	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-28	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-29	0	July 10, 2023	ND	ND	ND	68	50	68	118	3,100
	2	July 10, 2023	ND	ND	ND	53	ND	53	53	150
BH23-30	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	86
BH23-31	0	July 10, 2023	ND	ND	ND	67	82	67	149	96
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND

Client Name: Devon Energy Production Company, LP

Site Name: SDE 31 Federal CTB

NM OCD Tracking #: nKJ1516742526, nRM2014559127

Project #: 24E-01499

Lab Reports: 2001883, 2303491, 2303583, 2307350, 2307361, 2307362, 2307446, 2307525, 885-2613, and 885-48761-32

Table 3. Characterization Sample Laboratory Results - Depth to Groundwater 51-100 feet bgs

Table 3. Characterization Sample Laboratory Results - Depth to Groundwater 51-100 feet bgs										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
BH23-32	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	74
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-33	0	July 10, 2023	ND	ND	ND	780	650	780	1,430	790
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-34	0	July 10, 2023	ND	ND	ND	1,400	960	1,400	2,360	ND
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-35	0	July 10, 2023	ND	ND	ND	3,200	4,000	3,200	7,200	ND
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	200
BH23-36	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-37	0	July 10, 2023	ND	ND	ND	23	ND	23	23	340
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-38	0	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	69
	2	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	110
BH23-39	0	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	430
	2	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	95
BH23-40	0	July 11, 2023	ND	ND	ND	14	ND	14	14	3,400
	2	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	1,800
BH23-41	0	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	2,500
	2	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	590
BH23-42	0	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	190
	2	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	99
BH23-43	0	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	77
	2	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-44	0	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	670
	2	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	1,100
BH23-45	0	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	1,800
	2	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	1,200
BH23-46	0	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	260
BH23-47	0	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	1,100
	2	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	330
BH23-48	0	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	2,100
	2	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	1,400
BH23-49	0	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-50	0	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 11, 2023	ND	ND	ND	ND	ND	ND	ND	310
BH24-01	0.5	April 5, 2024	ND	1	120	12,000	2,500	12,120	14,620	2,500
	2	April 4, 2024	ND	ND	ND	290	200	290	490	950
BH24-02	0.5	April 5, 2024	ND	ND	ND	1,700	1,100	1,700	2,800	160
	2	April 4, 2024	ND	ND	ND	68	170	68	238	320

Client Name: Devon Energy Production Company, LP

Site Name: SDE 31 Federal CTB

NM OCD Tracking #: nKJ1516742526, nRM2014559127

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Lab Reports: 2001883, 2303491, 2303583, 2307350, 2307361, 2307362, 2307446, 2307525, 885-2613, and 885-48761-32

Table 3. Characterization Sample Laboratory Results - Depth to Groundwater 51-100 feet bgs

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Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
BH24-03	0.5	April 5, 2024	ND	ND	ND	750	1,200	750	1,950	5,300
	2	April 4, 2024	ND	ND	ND	ND	ND	ND	ND	2,100
BH24-04	0.5	April 4, 2024	ND	ND	ND	14,000	7,000	14,000	21,000	8,700
	2	April 5, 2024	ND	ND	ND	1,300	1,200	1,300	2,500	4,100
	4	April 5, 2024	ND	ND	ND	2,500	2,200	2,500	4,700	3,900
	6	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	1,700
	7	April 5, 2024	ND	ND	ND	220	150	220	370	9,600
BH24-05	0.5	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	4,600
	2	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	4,500
BH24-06	0.5	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	16
	2	April 5, 2024	ND	ND	ND	15	ND	15	15	52
BH24-07	0.5	April 5, 2024	ND	ND	ND	14	ND	14	14	130
	2	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	31
BH24-08	0.5	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	130
	2	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	41
Additional Delineation Based on Denial										
BS25-10*	1	May 2, 2026	ND	ND	ND	330	190	330	520	2,600
	2	May 2, 2026	ND	ND	ND	2,600	1,700	2,600	4,300	5,900
	3	May 2, 2026	ND	ND	ND	ND	ND	ND	ND	3,400
	4	May 2, 2026	ND	ND	ND	ND	ND	ND	ND	2,000
	5	May 2, 2026	ND	ND	ND	ND	ND	ND	ND	910
	6	May 2, 2026	ND	ND	ND	ND	ND	ND	ND	1,200
	7	May 2, 2026	ND	ND	ND	ND	ND	ND	ND	1,000
	8	May 2, 2026	ND	ND	ND	ND	ND	ND	ND	530
BS25-11*	9	May 2, 2026	ND	ND	ND	ND	ND	ND	ND	530
	1	May 1, 2026	ND	ND	ND	240	290	240	530	250
	2	May 1, 2026	ND	ND	ND	55	170	55	225	120
	3	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	100
BS25-12*	4	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	140
	1	May 1, 2026	ND	ND	ND	28	ND	28	28	3,400
	2	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	1,400
	3	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	3,500
	4	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	6,500
	5	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	3,900
	6	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	4,200
	7	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	4,900
	8	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	660
9	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	160	

Client Name: Devon Energy Production Company, LP

Site Name: SDE 31 Federal CTB

NM OCD Tracking #: nKJ1516742526, nRM2014559127

Project #: 24E-01499

Lab Reports: 2001883, 2303491, 2303583, 2307350, 2307361, 2307362, 2307446, 2307525, 885-2613, and 885-48761-32

Table 3. Characterization Sample Laboratory Results - Depth to Groundwater 51-100 feet bgs

Table 3. Characterization Sample Laboratory Results - Depth to Groundwater 51-100 feet bgs										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
WS25-09*	1	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	3,500
	2	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	1,700
	3	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	5,100
	4	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	9,800
	5	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	9,100
	6	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	7,800
	7	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	6,900
	8	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	2,900
	9	May 1, 2026	ND	ND	12	ND	ND	12	12	1,500
	10	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	210

"ND" Not Detected at the Reporting Limit

"- " indicates not analyzed/assessed

"*" indicates a borehole was collected as a discrete sample inside the location of the base sample with the same name

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria

Client Name: Devon Energy Production Company, LP

Site Name: SDE 31 Federal CTB

NM OCD Tracking #: nKJ1516742526, nRM2014559127

Project #: 24E-01499

Lab Reports: 885-31726, 885-31811, 885-32050, 885-32065, 885-32166, 885-33205 and 885-34694

Table 4. Confirmation Sample Field Screen and Laboratory Results

Table 4. Confirmation Sample Field Screen and Laboratory Results										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
Depth to Groundwater 51 - 100 feet bgs										
Base Samples										
BS25-01	1	August 21, 2025	ND	ND	ND	18	ND	ND	ND	350
BS25-02	1	August 21, 2025	ND	ND	ND	270	960	270	1,230	510
BS25-03	1	August 21, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-04	1	August 21, 2025	ND	ND	ND	ND	ND	ND	ND	230
BS25-05	1	August 21, 2025	ND	ND	ND	38	ND	38	38	2,200
BS25-06	2.5	August 21, 2025	ND	ND	ND	180	270	180	450	4,300
BS25-07	0.5	August 22, 2025	ND	ND	ND	1,400	780	1,400	2,180	6,300
BS25-08	0.5	August 22, 2025	ND	0.06	70	4,600	2,700	4,670	7,370	10,000
BS25-09	2	August 22, 2025	ND	ND	ND	ND	ND	ND	ND	280
BS25-10	0.5	August 22, 2025	ND	ND	21	3,600	2,200	3,621	5,821	5,000
BS25-11	0.5	August 22, 2025	ND	ND	ND	3,500	1,600	3,500	5,100	730
BS25-12	0.5	August 22, 2025	ND	ND	ND	3,100	1,300	3,100	4,400	4,100
BS25-13	0.5	August 22, 2025	ND	ND	ND	670	530	670	1,200	1,200
BS25-14	0.5	August 22, 2025	ND	ND	ND	90	60	90	150	3,000
BS25-15	2	August 22, 2025	ND	ND	ND	320	550	320	870	990
BS25-16	0.5	August 22, 2025	ND	ND	ND	790	1,100	790	1,890	5,400
BS25-17	0	August 25, 2025	ND	ND	ND	37	77	37	114	720
BS25-18	0	August 25, 2025	ND	ND	ND	220	730	220	950	780
BS25-19	0	August 25, 2025	ND	ND	ND	56	150	56	206	320
BS25-20	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	220
BS25-21	0	August 25, 2025	ND	ND	ND	39	120	39	159	250
BS25-22	0	August 25, 2025	ND	ND	ND	36	130	36	166	580
BS25-23	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	3,900
BS25-24	0	August 25, 2025	ND	ND	ND	49	130	19	149	4,800
BS25-25	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	2,400
BS25-26	0	August 25, 2025	ND	ND	ND	40	ND	40	40	3,400
BS25-27	0	August 25, 2025	ND	ND	ND	14	ND	14	14	2,200
BS25-28	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	130
BS25-29	0	August 25, 2025	ND	ND	ND	890	2,800	890	3,690	7,400
	0.25	September 11, 2025	ND	ND	ND	ND	ND	ND	ND	3,300
BS25-30	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	1,500
BS25-31	0	August 25, 2025	ND	ND	ND	57	140	57	197	1,700
BS25-32	0	August 25, 2025	ND	ND	ND	44	110	44	154	5,500
BS25-33	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	1,200
BS25-34	0	August 25, 2025	ND	ND	ND	150	300	150	450	1,200
BS25-35	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	3,300
BS25-36	0	August 25, 2025	ND	ND	ND	160	220	160	380	4,000
BS25-37	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	3,800
BS25-38	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	2,400
BS25-39	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	4,800

Client Name: Devon Energy Production Company, LP

Site Name: SDE 31 Federal CTB

NM OCD Tracking #: nKJ1516742526, nRM2014559127

Project #: 24E-01499

Lab Reports: 885-31726, 885-31811, 885-32050, 885-32065, 885-32166, 885-33205 and 885-34694

Table 4. Confirmation Sample Field Screen and Laboratory Results

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Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
										(mg/kg)
Depth to Groundwater 51 - 100 feet bgs										
Base Samples										
BS25-40	0	August 25, 2025	ND	ND	ND	59	220	59	279	4,000
BS25-41	0	August 25, 2025	ND	ND	ND	100	210	100	310	3,400
BS25-42	0	August 25, 2025	ND	ND	ND	39	99	39	138	3,800
BS25-43	0	August 25, 2025	ND	ND	ND	72	180	72	252	2,700
BS25-44	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	1,100
BS25-45	0	August 25, 2025	ND	ND	ND	980	1,300	980	2,280	1,600
BS25-46	0	August 25, 2025	ND	ND	ND	53	120	53	173	2,000
BS25-47	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	1,700
BS25-48	0	August 25, 2025	ND	ND	ND	98	210	98	308	2,400
BS25-49	0	August 25, 2025	ND	ND	ND	130	200	130	330	3,500
BS25-50	0	August 25, 2025	ND	ND	ND	1,200	1,600	1,200	2,800	820
	0.25	September 11, 2025	ND	ND	ND	220	270	220	490	330
BS25-51	0	August 25, 2025	ND	ND	ND	530	920	530	1,450	3,300
BS25-52	0	August 25, 2025	ND	ND	ND	9.7	ND	9.7	9.7	5,000
BS25-53	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	4,000
BS25-54	0	August 25, 2025	ND	ND	ND	11	ND	11	11	3,100
BS25-55	0	August 25, 2025	ND	ND	ND	ND	ND	ND	ND	2,900
BS25-56	0	August 25, 2025	ND	ND	ND	37	74	37	111	4,100
BS25-57	0	August 25, 2025	ND	ND	ND	110	200	110	310	1,400
BS25-58	0	August 26, 2025	ND	ND	ND	18	65	18	83	2,900
BS25-59	0	August 26, 2025	ND	ND	ND	35	190	35	225	4,200
BS25-60	0	August 26, 2025	ND	ND	ND	98	270	98	368	4,000
BS25-61	0	August 26, 2025	ND	ND	ND	300	1,400	300	1,700	4,100
BS25-62	0	August 26, 2025	ND	ND	ND	150	1,300	150	1,450	3,900
BS25-63	0	August 26, 2025	ND	ND	ND	ND	ND	ND	ND	1,700
BS25-64	0	August 26, 2025	ND	ND	ND	15	50	15	65	1,100
BS25-65	0	August 26, 2025	ND	ND	ND	ND	ND	ND	ND	80
BS25-66	0	August 26, 2025	ND	ND	ND	ND	ND	ND	ND	790
BS25-67	0	August 26, 2025	ND	ND	ND	14	ND	14	14	ND
BS25-68	0	August 27, 2025	ND	ND	ND	73	180	73	253	ND
BS25-69	0	August 27, 2025	ND	ND	ND	380	2,000	380	2,380	ND
BS25-70	0	August 27, 2025	ND	ND	ND	550	590	550	1,140	ND
BS25-71	0	August 27, 2025	ND	ND	ND	140	230	140	370	ND
BS25-72	0	August 27, 2025	ND	ND	ND	560	1,300	560	1,860	75
BS25-73	0	August 27, 2025	ND	ND	ND	1,000	2,200	1,000	3,200	79
	0.25	September 11, 2025	ND	ND	ND	270	550	270	820	82
BS25-74	0	August 27, 2025	ND	ND	ND	70	ND	70	70	88
BS25-75	0	August 27, 2025	ND	ND	ND	70	230	70	300	ND
BS25-76	0	August 27, 2025	ND	ND	ND	13	ND	13	13	1,300
BS25-77	0	August 27, 2025	ND	ND	ND	38	140	38	178	780

Client Name: Devon Energy Production Company, LP

Site Name: SDE 31 Federal CTB

NM OCD Tracking #: nKJ1516742526, nRM2014559127

Project #: 24E-01499

Lab Reports: 885-31726, 885-31811, 885-32050, 885-32065, 885-32166, 885-33205 and 885-34694

Table 4. Confirmation Sample Field Screen and Laboratory Results										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
Depth to Groundwater 51 - 100 feet bgs										
Base Samples										
BS25-78	0	August 27, 2025	ND	ND	ND	56	160	56	216	420
BS25-79	0	August 27, 2025	ND	ND	ND	120	250	120	370	78
BS25-80	0	August 27, 2025	ND	ND	ND	140	270	140	410	66
BS25-81	0.25	September 11, 2025	ND	ND	ND	ND	ND	ND	ND	2,000
BS25-82	0.25	September 11, 2025	ND	ND	ND	76	94	76	170	210
BS25-83	0.25	September 11, 2025	ND	ND	ND	230	540	230	770	ND
Wall Samples										
WS25-01	0-1	August 21, 2025	ND	ND	ND	580	660	580	1,240	390
WS25-02	0-1	August 21, 2025	ND	ND	ND	1,700	3,000	1,700	4,700	2,200
	0-1*	September 11, 2025	ND	ND	ND	210	570	210	780	2,900
WS25-03	0-1	August 21, 2025	ND	ND	ND	210	320	210	530	ND
WS25-04	0-1	August 21, 2025	ND	ND	ND	850	1,600	850	2,450	360
WS25-05	0-1	August 21, 2025	ND	ND	ND	18	ND	18	18	6,900
WS25-06	0-2.5	August 21, 2025	ND	ND	ND	410	710	410	1,120	5,000
WS25-07	0-2	August 22, 2025	ND	ND	ND	860	1,100	860	1,960	9,200
WS25-08	0-0.5	August 22, 2025	ND	ND	ND	920	1,100	920	2,020	6,200
WS25-09	0-0.5	August 22, 2025	ND	ND	ND	2,600	2,100	2,600	4,700	6,200
WS25-10	0-0.5	August 22, 2025	ND	ND	ND	100	190	100	290	6,400
WS25-11	0-0.5	August 22, 2025	ND	ND	ND	28	ND	28	28	6,200
WS25-12	0-2	August 22, 2025	ND	ND	ND	200	340	200	540	5,000
WS25-13	0-0.25	September 11, 2025	ND	ND	ND	12	ND	12	12	3,000
WS25-14	0-0.25	September 11, 2025	ND	ND	ND	160	220	160	380	170
WS25-15	0-0.25	September 11, 2025	ND	ND	ND	210	400	210	610	ND
Backfill Sample										
Backfill-01	-	October 1, 2025	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"*" Wall sample was excavated further before sampling occurred

"- " indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)

Bold and blue shaded indicates re-collected sample results inside NMOCD Reclamation Closure Criteria

Strikethrough indicates the excavation depth was increased and the soil represented by the sample was removed

Client Name: Devon Energy Production Company, LP
 Site Name: SDE 31 Federal CTB
 NM OCD Tracking #: nKJ1516742526, nRM2014559127
 Project #: 24E-01499

Table 5. Deferral Area Relevant Samples Laboratory Analysis

Table 5. Deferral Area Relevant Samples Laboratory Analysis										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
Depth to Groundwater 51 - 100 feet bgs										
Deferral Base Samples										
BS25-07	0.5	August 22, 2025	ND	ND	ND	1,400	780	1,400	2,180	6,300
BS25-08	0.5	August 22, 2025	ND	0.06	70	4,600	2,700	4,670	7,370	10,000
BS25-10	0.5	August 22, 2025	ND	ND	21	3,600	2,200	3,621	5,821	5,000
BS25-11	0.5	August 22, 2025	ND	ND	ND	3,500	1,600	3,500	5,100	730
BS25-12	0.5	August 22, 2025	ND	ND	ND	3,100	1,300	3,100	4,400	4,100
Deferral Wall Sample										
WS25-09	0-0.5	August 22, 2025	ND	ND	ND	2,600	2,100	2,600	4,700	6,200
Surrounding Wall Samples to Closure Criteria										
WS25-07	0-2	August 22, 2025	ND	ND	ND	860	1,100	860	1,960	9,200
WS25-08	0-0.5	August 22, 2025	ND	ND	ND	920	1,100	920	2,020	6,200
WS25-11	0-0.5	August 22, 2025	ND	ND	ND	28	ND	28	28	6,200
Clean Base Sample Between Northern and Southern Deferral Areas										
BS25-09	2	August 22, 2025	ND	ND	ND	ND	ND	ND	ND	280
Horizontal Delineation										
BH20-01	2	January 20, 2020	ND	ND	ND	59	ND	59	59	920
BH23-19	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	160
BH23-36	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-37	0	July 10, 2023	ND	ND	ND	23	ND	23	23	340
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH24-06	0.5	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	16
	2	April 5, 2024	ND	ND	ND	15	ND	15	15	52
BH24-07	0.5	April 5, 2024	ND	ND	ND	14	ND	14	14	130
	2	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	31
BH24-08	0.5	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	130
	2	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	41
Intial Vertical Delineation										
BH23-09	0	July 9, 2023	ND	ND	ND	220	220	220	440	1,700
	2	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	600
	4	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	130
	6	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	120
BH23-11	0	July 9, 2023	ND	ND	ND	9,400	3,000	9,400	12,400	75
	2	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	4	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	6	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	ND

Client Name: Devon Energy Production Company, LP
 Site Name: SDE 31 Federal CTB
 NM OCD Tracking #: nKJ1516742526, nRM2014559127
 Project #: 24E-01499

Table 5. Deferral Area Relevant Samples Laboratory Analysis										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Depth to Groundwater 51 - 100 feet bgs										
Subsequental Vertical Delineation Inside the Deferral Base Samples										
BS25-10*	1	May 2, 2026	ND	ND	ND	330	190	330	520	2,600
	2	May 2, 2026	ND	ND	ND	2,600	1,700	2,600	4,300	5,900
	3	May 2, 2026	ND	ND	ND	ND	ND	ND	ND	3,400
	4	May 2, 2026	ND	ND	ND	ND	ND	ND	ND	2,000
	5	May 2, 2026	ND	ND	ND	ND	ND	ND	ND	910
	6	May 2, 2026	ND	ND	ND	ND	ND	ND	ND	1,200
	7	May 2, 2026	ND	ND	ND	ND	ND	ND	ND	1,000
	8	May 2, 2026	ND	ND	ND	ND	ND	ND	ND	530
BS25-11*	1	May 1, 2026	ND	ND	ND	240	290	240	530	250
	2	May 1, 2026	ND	ND	ND	55	170	55	225	120
	3	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	100
	4	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	140
BS25-12*	1	May 1, 2026	ND	ND	ND	28	ND	28	28	3,400
	2	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	1,400
	3	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	3,500
	4	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	6,500
	5	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	3,900
	6	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	4,200
	7	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	4,900
	8	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	660
WS25-09*	1	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	3,500
	2	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	1,700
	3	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	5,100
	4	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	9,800
	5	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	9,100
	6	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	7,800
	7	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	6,900
	8	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	2,900
	9	May 1, 2026	ND	ND	12	ND	ND	12	12	1,500
	10	May 1, 2026	ND	ND	ND	ND	ND	ND	ND	210

"ND" Not Detected at the Reporting Limit

"*" indicates a borehole was collected as a discrete sample inside the location of the base sample with the same name

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)

Strikethrough indicates the excavation depth was increased and the soil represented by the sample was removed

APPENDIX A – Closure Criteria Research Documentation

Closure Criteria Determination			
Site Name: SDE 31 FED CTB			
Spill Coordinates: 32.26464683, -103.716411		X: UTM easting	Y: UTM northing
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	>55	feet
	Distance between release and nearest DTGW reference	675	feet
		0.13	miles
	Date of nearest DTGW reference measurement	March 9, 2023	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	84,092	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	70,479	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	21,893	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		feet
	ii) Within 1000 feet of any fresh water well or spring	2,074	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	8,145	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	60731 ft / 11.5 miles	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	37,464	feet
10	Within a 100-year Floodplain	500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	65,506	feet
11	Soil Type	PU	
12	Ecological Classification	Sandy Loam	
13	Geology	Qa	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	<50' 51-100' >100'



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	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04712 POD1	CUB	LE		1	4	1	31	23S	32E	620917	3570289	205	55		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 620896.69

Northing (Y): 3570493.43

Radius: 1610

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.

3/29/24 3:30 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

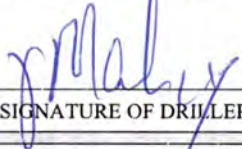
www.ose.state.nm.us

[illegible]

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-4712-POD1		POD NO. 1	TRN NO. 743189
LOCATION Mon 23.32.31.141		WELL TAG ID NO. —	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)		ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)								
	FROM	TO													
4. HYDROGEOLOGIC LOG OF WELL	0	20	20	White Calciche	Y	N									
	20	45	25	Brown fine sand	Y	N									
	45	55	10	Red sandy Calciche	Y	N									
					Y	N									
					Y	N									
					Y	N									
					Y	N									
					Y	N									
					Y	N									
					Y	N									
					Y	N									
					Y	N									
					Y	N									
					Y	N									
					Y	N									
					Y	N									
					Y	N									
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):									
☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:					Dry										
5. TEST; RIG SUPERVISION	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.														
	MISCELLANEOUS INFORMATION:														
	OSE DTI APR 4 2023 PML:23														
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:															
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:														
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME				Jason Mailey DATE										
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 09/22/2022) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:40%;">FILE NO. C-4712-POD 1</td> <td style="width:10%;">POD NO. 1</td> <td style="width:30%;">TRN NO. 743189</td> <td style="width:20%;"></td> </tr> <tr> <td>LOCATION Mon 23.32.31.141</td> <td colspan="2">WELL TAG ID NO.</td> <td>PAGE 2 OF 2</td> </tr> </table>								FILE NO. C-4712-POD 1	POD NO. 1	TRN NO. 743189		LOCATION Mon 23.32.31.141	WELL TAG ID NO.		PAGE 2 OF 2
FILE NO. C-4712-POD 1	POD NO. 1	TRN NO. 743189													
LOCATION Mon 23.32.31.141	WELL TAG ID NO.		PAGE 2 OF 2												

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: 743189
File Nbr: C 04712
Well File Nbr: C 04712 POD1

Apr. 04, 2023

VERTEX RESOURCES
P.O. BOX 936
ROSWELL, NM 88202

Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Maret Thompson".

Maret Thompson
(575) 622-6521

drywell



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 04712 POD1	1	4	1	31	23S	32E	620917	3570289 

Driller License: 1833

Driller Company: VISION RESOURCES, INC

Driller Name: JASON MALEY

Drill Start Date: 03/09/2023

Drill Finish Date: 03/09/2023

Plug Date: 03/14/2023

Log File Date: 04/04/2023

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 6.00

Depth Well: 55 feet

Depth Water:

Casing Perforations: Top Bottom

45

55

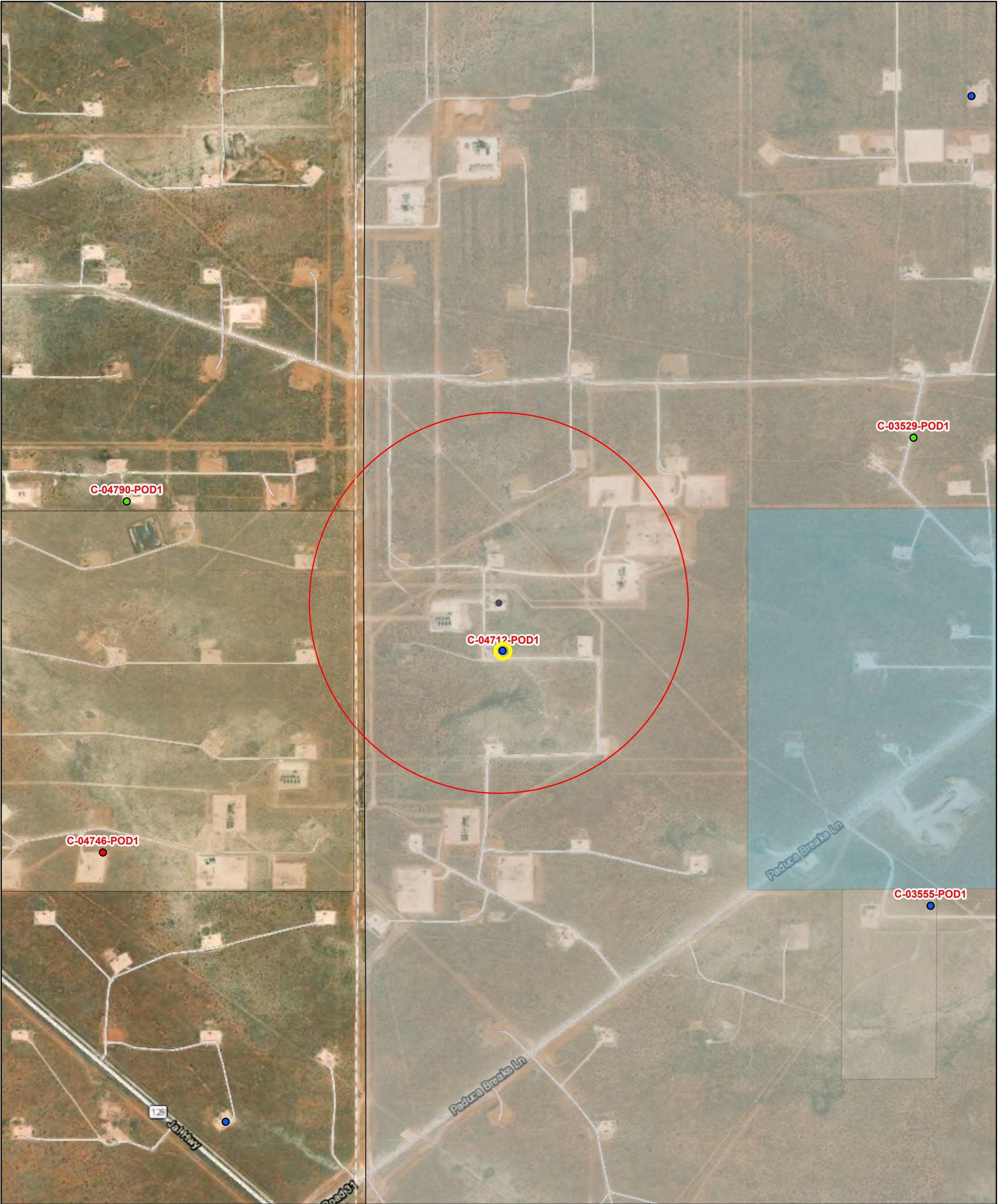
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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Page 1 of 1

POD SUMMARY - C 04712 POD1

OSE POD Location Map



3/29/2024, 3:49:11 PM

GIS WATERS PODs

● Active

● Pending

● Plugged

OSE District Boundary

Water Right Regulations

Closure Area

Artesian Planning Area

New Mexico State Trust Lands

Subsurface Estate

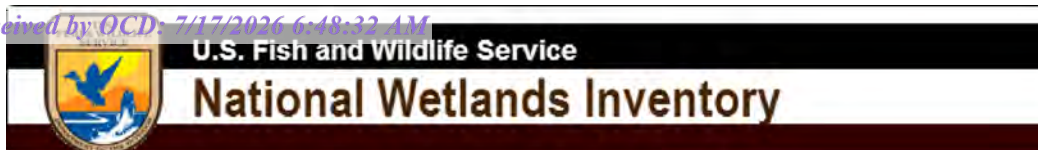
Both Estates

1:18,056

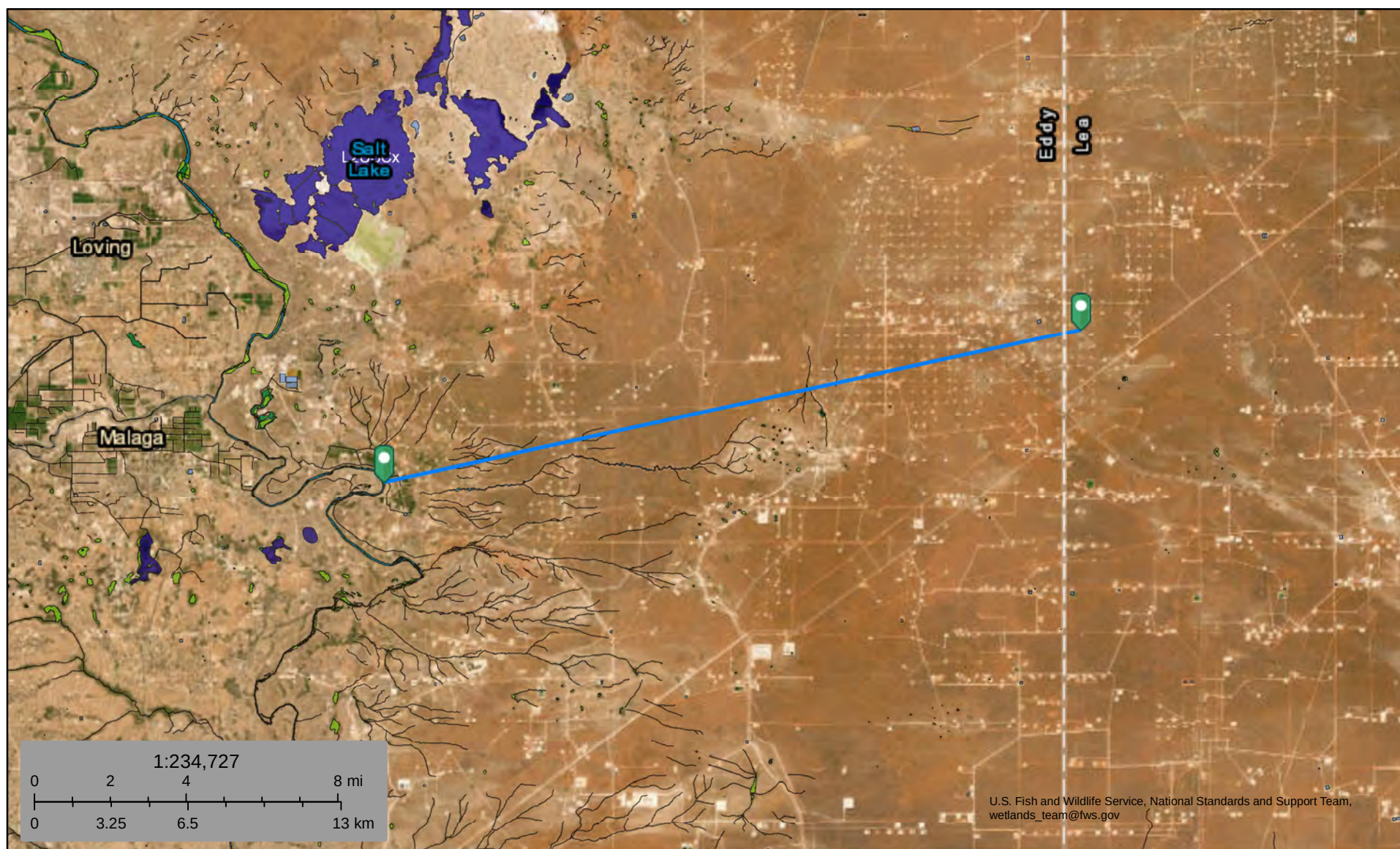
00.170.350.7 mi

00.280.551.1 km

Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



SDE 31 CTB Watercourse 84,092 ft



March 29, 2024

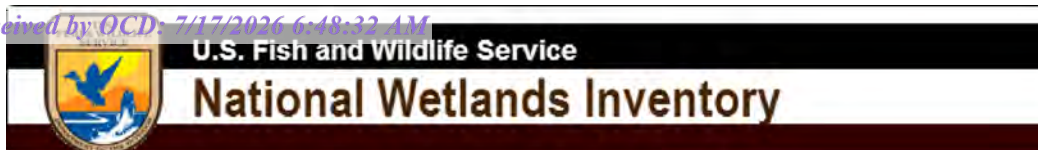
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

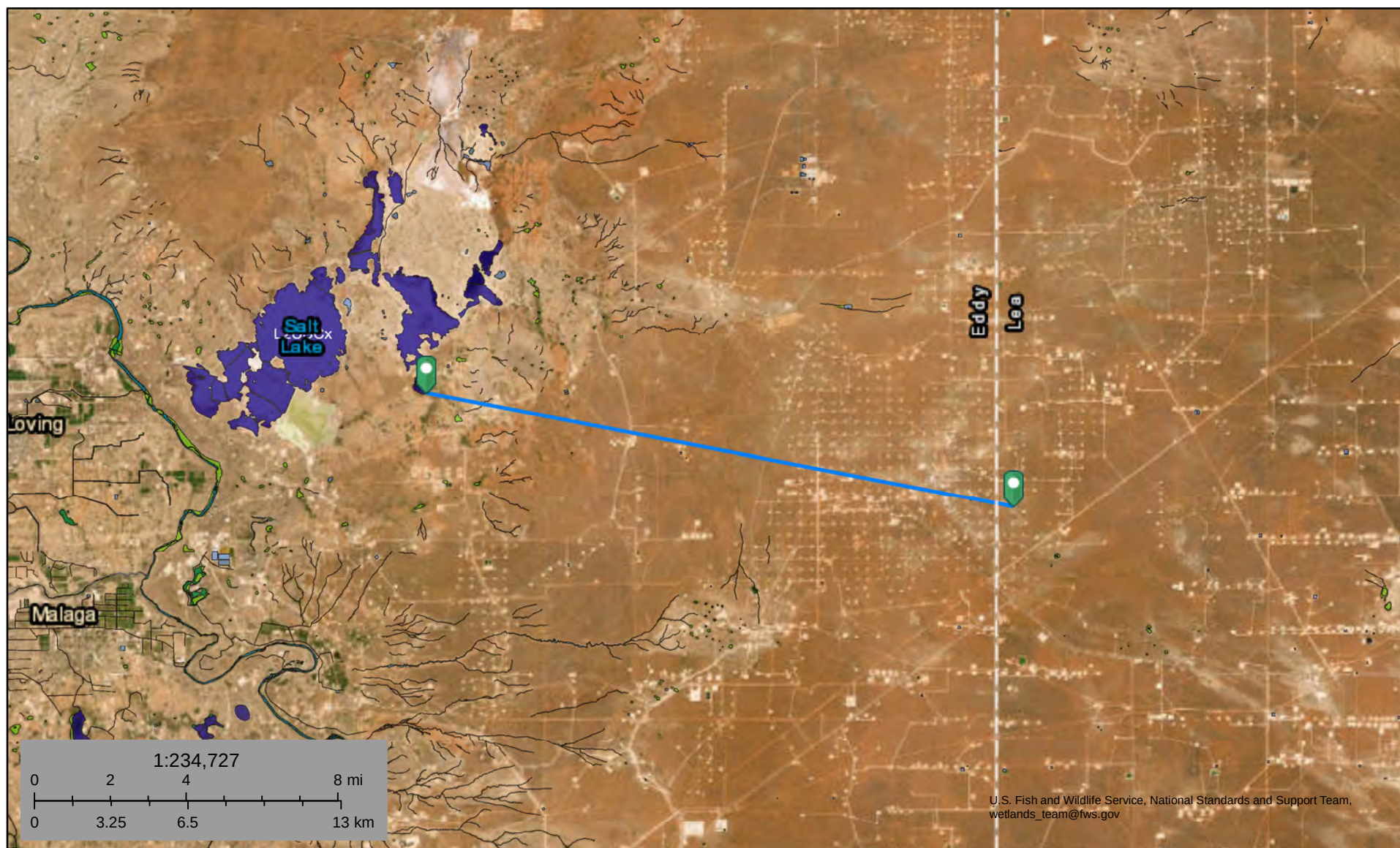
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- 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.



SDE 31 CTB Lake 70,479 ft



March 29, 2024

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.

SDE 31 CTB

Nearest Residence:
21,893 ft
4.15 miles

Legend

- Feature 1
- Feature 2

32.26464683, -103.716411

Residence

Google Earth

Oilfield Water Logistics McCloy SWD

2 mi



New Mexico Office of the State Engineer

Water Right Summary


[get image list](#)

WR File Number: C 04712

Subbasin: CUB

Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Header: -

Total Diversion: 0

Cause/Case: -

Owner: VERTEX RESOURCES

User: HARVARD PETROLEUM COMPANY LLC

Contact: JUSTIN WARREN

Documents on File


[get images](#)

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
743189	EXPL	2023-02-21	PMT	APR	C 04712 POD1-6	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q Q Q			X	Y	Other Location Desc
			64	16	4			
C 04712 POD1	NA		1	4	1	31	23S 32E	620917 3570289 SDE
C 04712 POD2	NA		4	4	4	17	23S 32E	623332 3574331 TOMCAT17
C 04712 POD3	NA		4	1	2	24	23S 31E	619651 3573877 TODD24
C 04712 POD4	NA		1	4	3	14	23S 31E	617535 3574316 TODD14
C 04712 POD5	NA		4	4	3	09	23S 31E	614393 3575754 NPG9
C 04712 POD6	NA		3	3	4	08	23S 31E	613147 3575740 NPG8

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)										(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)									
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	q q 4	Sec	Tws	Rng	X	Y	Distance
C 04712	CUB	MON		0 VERTEX RESOURCES	LE	C 04712 POD1	NA				1	4	1	31	23S	32E	620917	3570289	 205
C 04790	CUB	MON		0 DEVON ENERGY RESOURCES	ED	C 04790 POD1	NA				4	4	3	25	23S	31E	619309	3570904	 1639
C 03529	C	STK		0 U.S. DEPT. OF INTERIOR--BLM	LE	C 03529 POD1					2	4	3	29	23S	32E	622651	3571212	 1896
C 04746	CUB	MON		0 DEVON ENERGY RESOURCES	ED	C 04746 POD1	NA				3	4	3	36	23S	31E	619225	3569417	 1987
C 03555	C	STK		3 NGL NORTH RANCH LLC A TEXAS LIMITED LIABILITY CO	LE	C 03555 POD1	NA			Shallow	2	2	1	05	24S	32E	622748	3569233	 2239
C 02602	C	SAN		0 POGO PRODUCING COMPANY	ED	C 02602					2	2	35	23S	31E	31E	618471	3570650*	 2430
C 04672	CUB	EXP		0 OXY USA INC.	ED	C 04672 POD 1	NA				2	1	4	01	24S	31E	619762	3568286	 2481
C 04775	CUB	MON		0 DEVON ENERGY RESOURCES	LE	C 04775 POD1	NA				4	4	4	06	24S	32E	621789	3567860	 2780
C 03851	CUB	MON		0 US DEPARTMENT OF ENERGY	LE	C 03851 POD1				Artesian	3	3	4	20	23S	32E	622879	3572660	 2936
C 02258	C	PRO		0 DEVON ENERGY CORP.(NEVADA)	ED	C 02258					3	2	26	23S	31E	31E	618055	3571853*	 3150
C 02348	C	STK		3 NGL NORTH RANCH LLC A TEXAS LIMITED LIABILITY CO	ED	C 02348				Shallow	1	4	3	26	23S	31E	617647	3571068	 3299
C 04712	CUB	MON		0 HARVARD PETROLEUM COMPANY LLC	ED	C 04712 POD3	NA				4	1	2	24	23S	31E	619650	3573877	 3606
C 00225 A	CUB	IRR		8.4 GREGORY ROCKHOUSE RANCH	ED	C 02405				Shallow	4	1	02	24S	31E	31E	617690	3568631*	 3708
C 01246 AO	CUB	IRR	47.82	CATHLEEN MC INTIRE	ED	C 02405				Shallow	4	1	02	24S	31E	31E	617690	3568631*	 3708
C 02405	C	PRO		0 TEXACO EXPLORATION & PROD. IND	ED	C 02405				Shallow	4	1	02	24S	31E	31E	617690	3568631*	 3708
C 02452	C	PRO		0 TEXACO EXPLORATION & PROD INC.	ED	C 02405				Shallow	4	1	02	24S	31E	31E	617690	3568631*	 3708
					ED	C 02452					4	1	02	24S	31E	31E	617690	3568631*	 3708
C 02576	C	PRO		0 SONAT EXPLORATION COMPANY	ED	C 02405				Shallow	4	1	02	24S	31E	31E	617690	3568631*	 3708

*UTM location was derived from PLSS - see Help

(R=POD has been replaced
and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

(acre ft per annum)							C=the file is closed)		(quarters are smallest to largest)						(NAD83 UTM in meters)				
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 64	q 16	q 4	Sec	Tws	Rng	X	Y	Distance
C 02464	C	PRO		0 COMMISSIONER OF PUBLIC LANDS	ED	C 02464				Shallow	2	3	1	02	24S	31E	617644	3568581	 3772
C 02901	C	PUB		0 B & H MAINTENANCE & CONST.	ED	C 02901					3	4	1	02	24S	31E	617589	3568530*	 3846
C 04774	CUB	MON		0 DEVON ENGERGY RESOURCES	ED	C 04774 POD1	NA				4	2	2	23	23S	31E	618456	3573856	 4155
C 02460	C	PRO		0 SONAT EXPLORATION	ED	C 02460				Shallow		3		02	24S	31E	617496	3568022*	 4203
					ED	C 02460 POD2				Shallow		3		02	24S	31E	617496	3568022*	 4203
C 04687	CUB	MON		0 ENSOLUM LLC	ED	C 04687 POD1	NA				4	2	3	12	24S	31E	619481	3566450	 4283
C 03530	C	STK		0 U.S. DEPT. OF INTERIOR--BLM	LE	C 03530 POD1					3	4	3	07	24S	32E	620886	3566156	 4336
C 04780	CUB	MON		0 EOG RESOURCES	LE	C 04780 POD1	NA				1	3	1	34	23S	32E	625363	3570521	 4466
C 04712	CUB	MON		0 HARVARD PETROLEUM COMPANY LLC	LE	C 04712 POD2	NA				4	4	4	17	23S	32E	623331	3574331	 4545
C 04727	CUB	EXP		0 TETRA TECH INC ON BEHALF OF CONOCO PHILLIPS	ED	C 04727 POD1	NA				2	2	2	13	24S	31E	620218	3565965	 4578
C 04770	CUB	MON		0 TASMAN INC.	LE	C 04770 POD1	NA				2	4	2	18	23S	32E	621778	3575132	 4722
C 02216	CUB	PLS	11.3	BRININSTOOL XL RANCH LLC	LE	C 02216					2	2	4	21	23S	32E	625035	3573261*	 4978
C 04704	CUB	MON		0 DEVON ENERGY	ED	C 04704 POD1	NA				3	2	2	13	23S	31E	619854	3575363	 4980

Record Count: 31

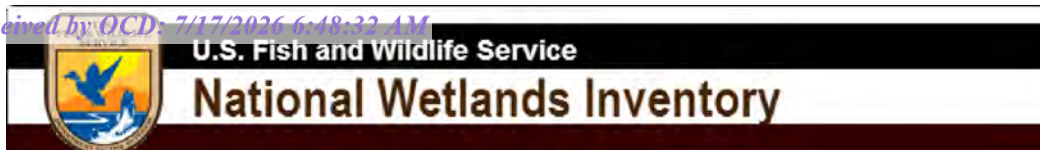
UTMNAD83 Radius Search (in meters):

Easting (X): 620896.69 Northing (Y): 3570493.43 Radius: 5000

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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SDE 31 CTB Wetland 8,145 ft



March 29, 2024

Wetlands

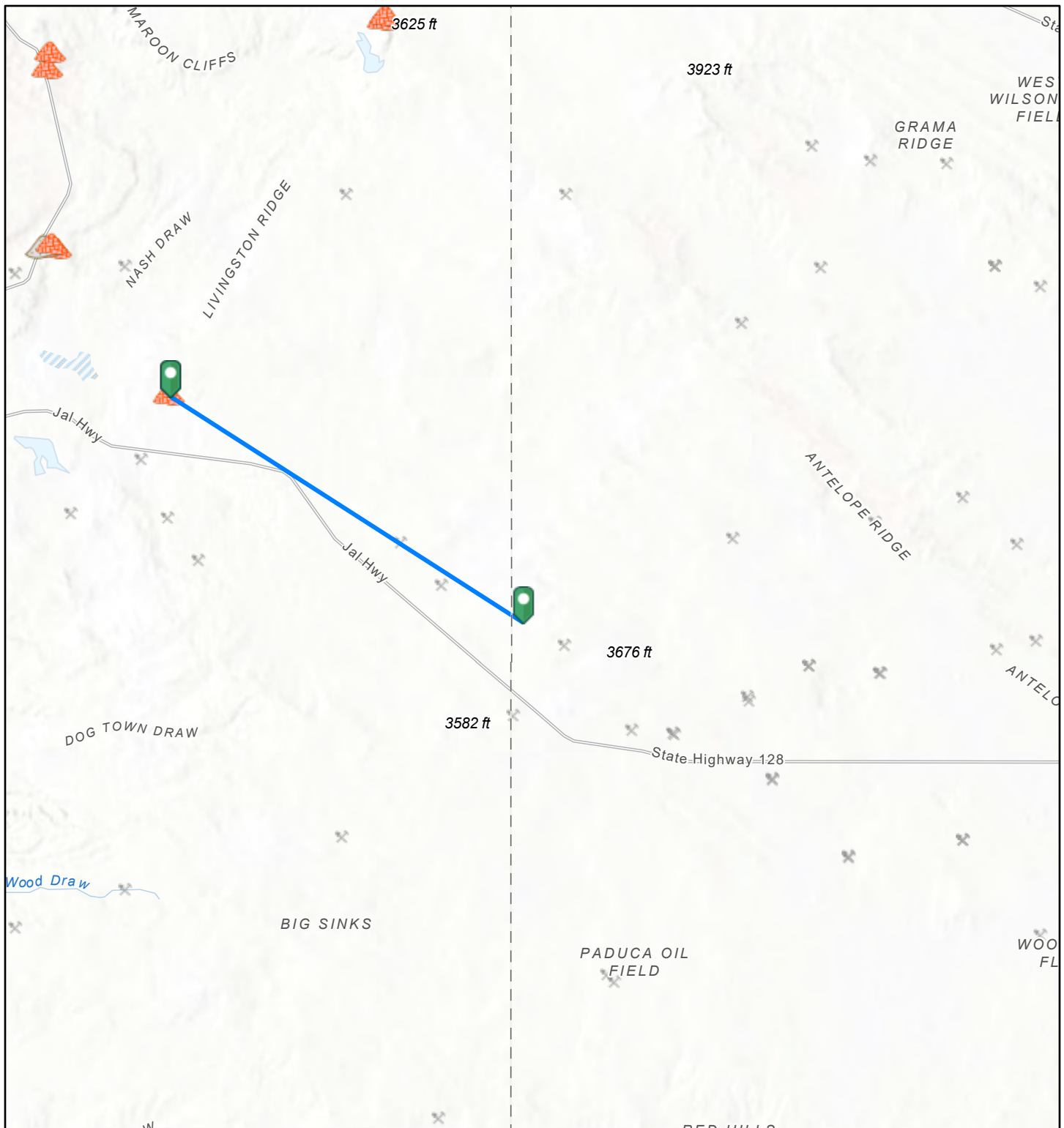
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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.

SDE 31 FEDERAL CTB Nearest Subsurface Mine 60,731 Feet/11.5 mi



5/16/2025, 12:37:42 PM

1:288,895

Registered Mines



Aggregate, Stone etc.



Aggregate, Stone etc.



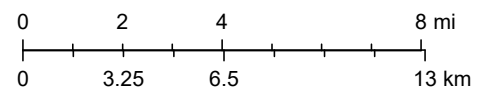
Potash



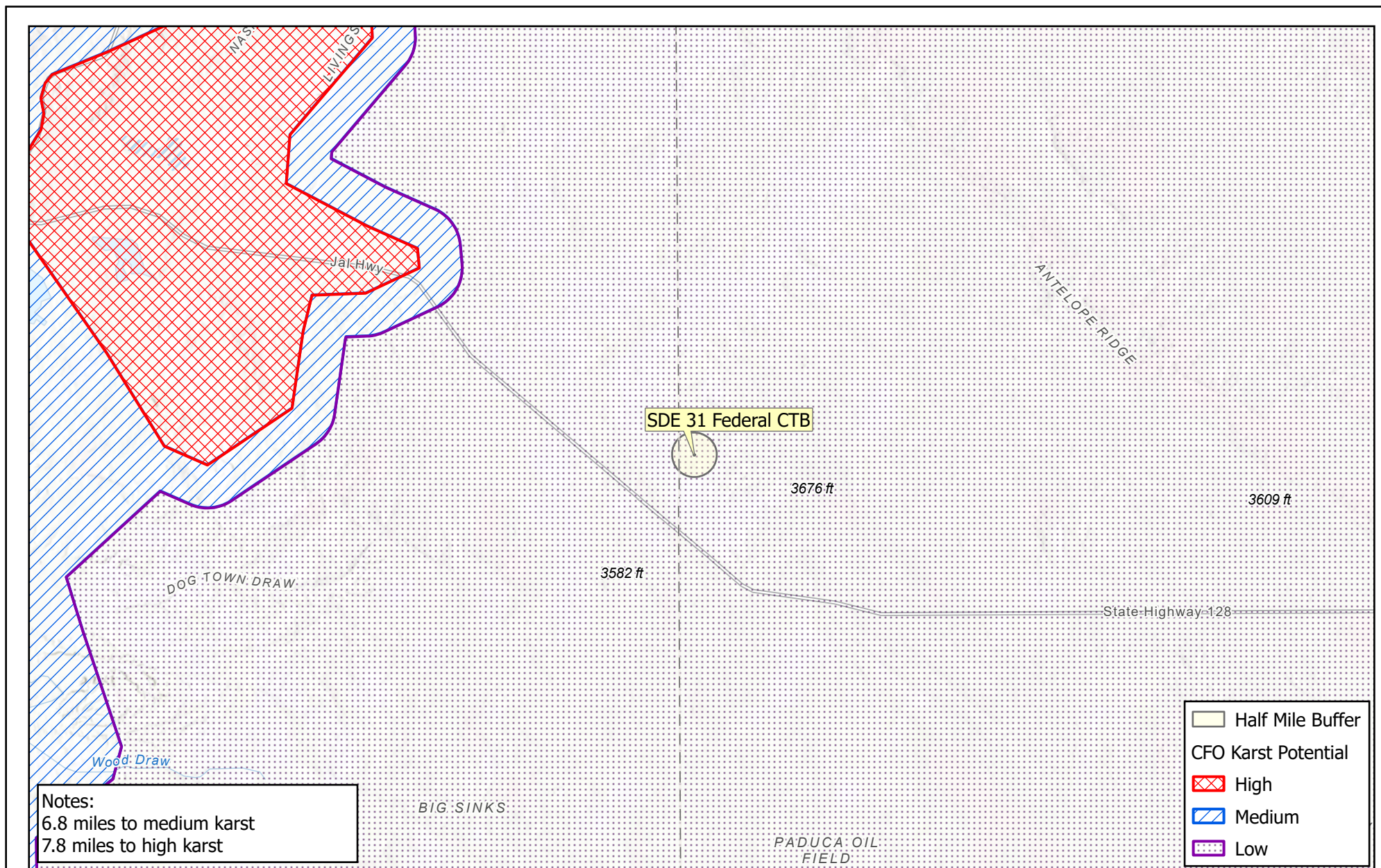
Aggregate, Stone etc.



Salt



Esri, NASA, NGA, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



0 1.5 3 Miles

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
 Lat/Long: 32.266908°N, 103.713565°W

Date: May 15/25



Karst Potential
SDE 31 Fed CTB (SDE 31 FED 4)

FIGURE:

8



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, 2025. Site features from GPS, Vertex, 2025.

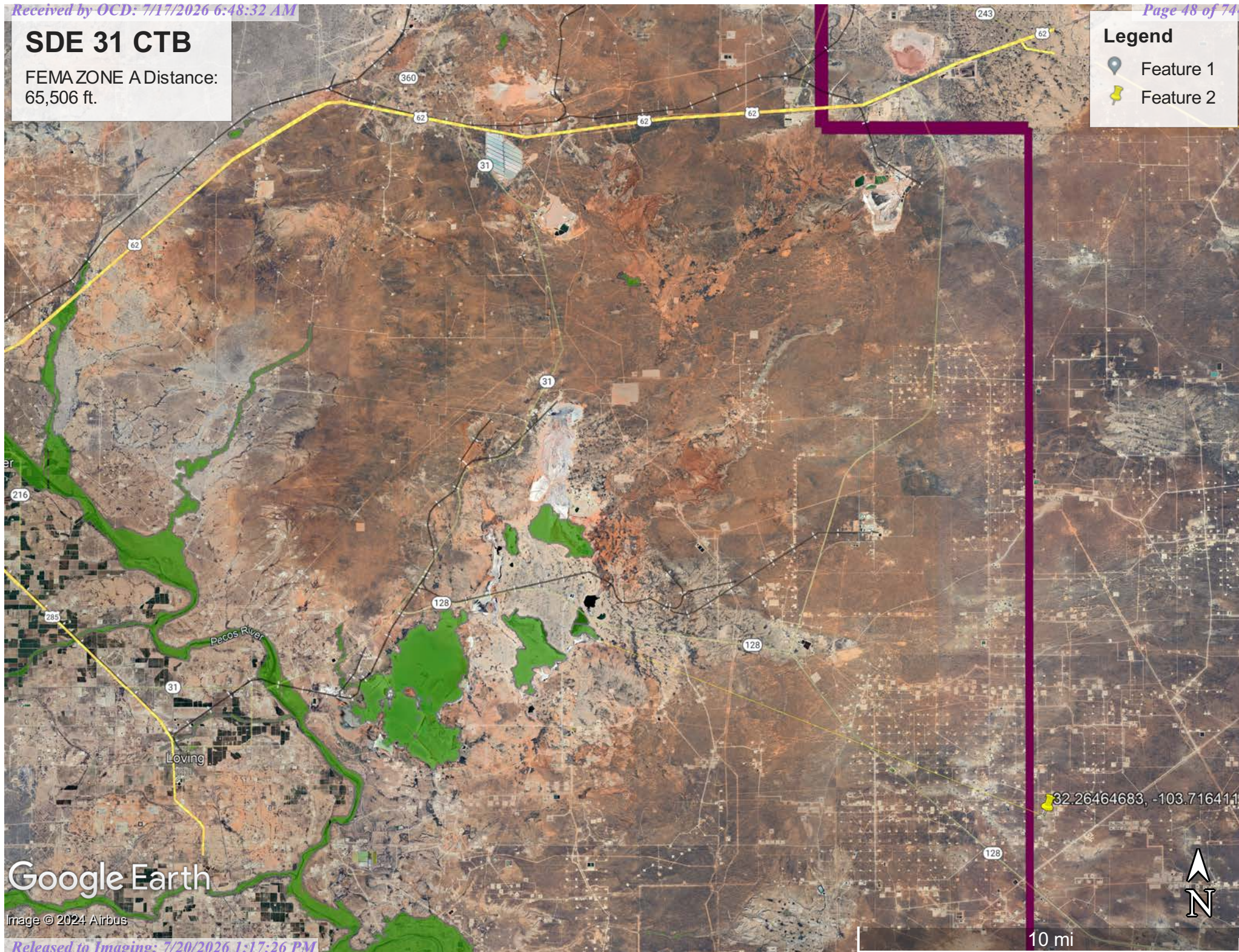
VERSATILITY. EXPERTISE.

SDE 31 CTB

FEMA ZONE A Distance:
65,506 ft.

Legend

- Feature 1
- Feature 2



Google Earth

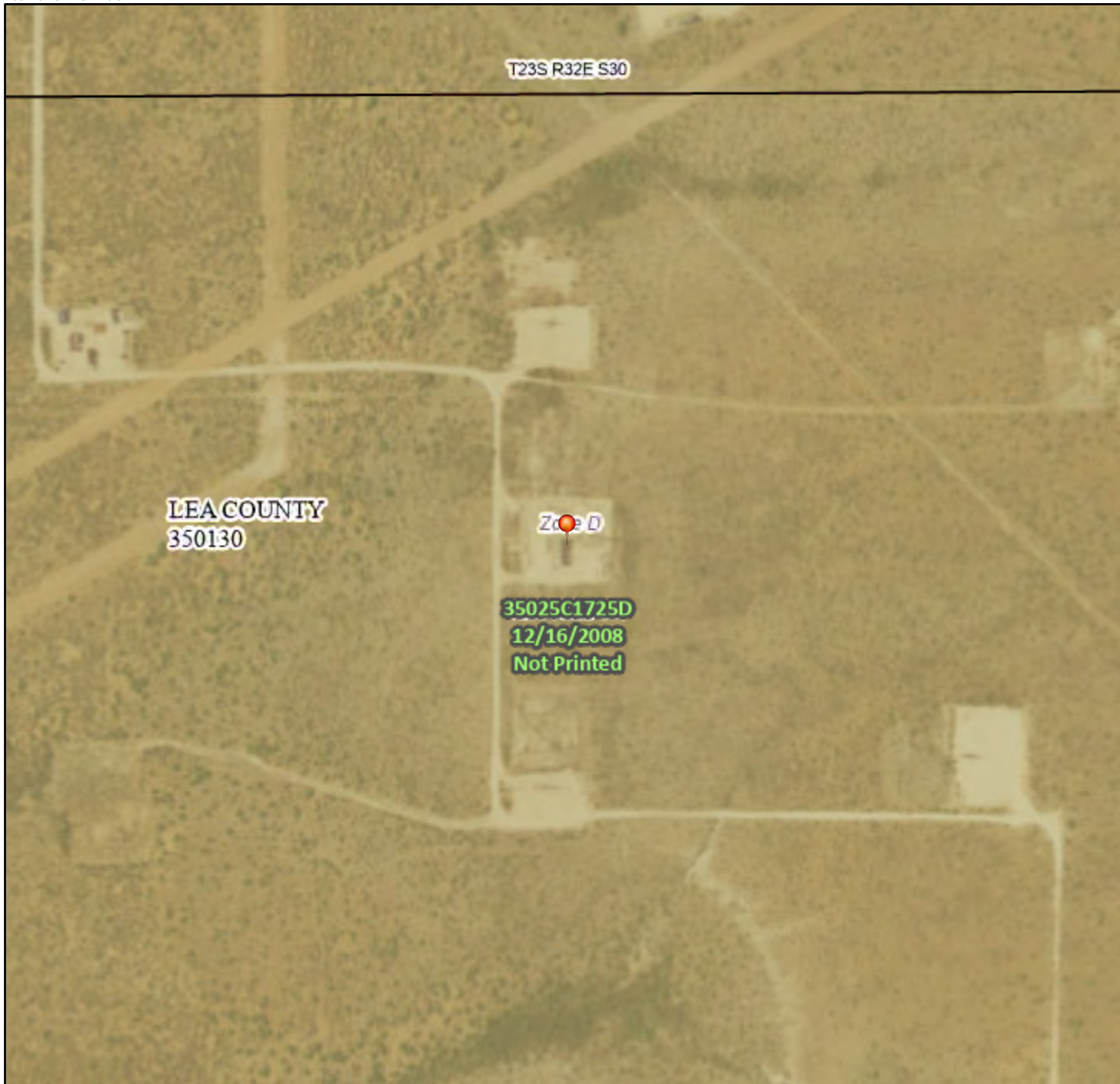
Image © 2024 Airbus

10 mi

National Flood Hazard Layer FIRMette



103°43'18"W 32°16'8"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°42'40"W 32°15'37"N

Released to Imaging: 7/20/2026 1:17:26 PM

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/30/2024 at 10:39 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Lea County, New Mexico**



March 30, 2024

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

Custom Soil Resource Report

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 20, Sep 6, 2023

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.

Custom Soil Resource Report

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PU	Pyote and Maljamar fine sands	2.8	100.0%
Totals for Area of Interest		2.8	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Custom Soil Resource Report

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

Custom Soil Resource Report

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

Hydric soil rating: No

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Custom Soil Resource Report

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Ecological site R070BD003NM

Loamy Sand

Accessed: 03/30/2024

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

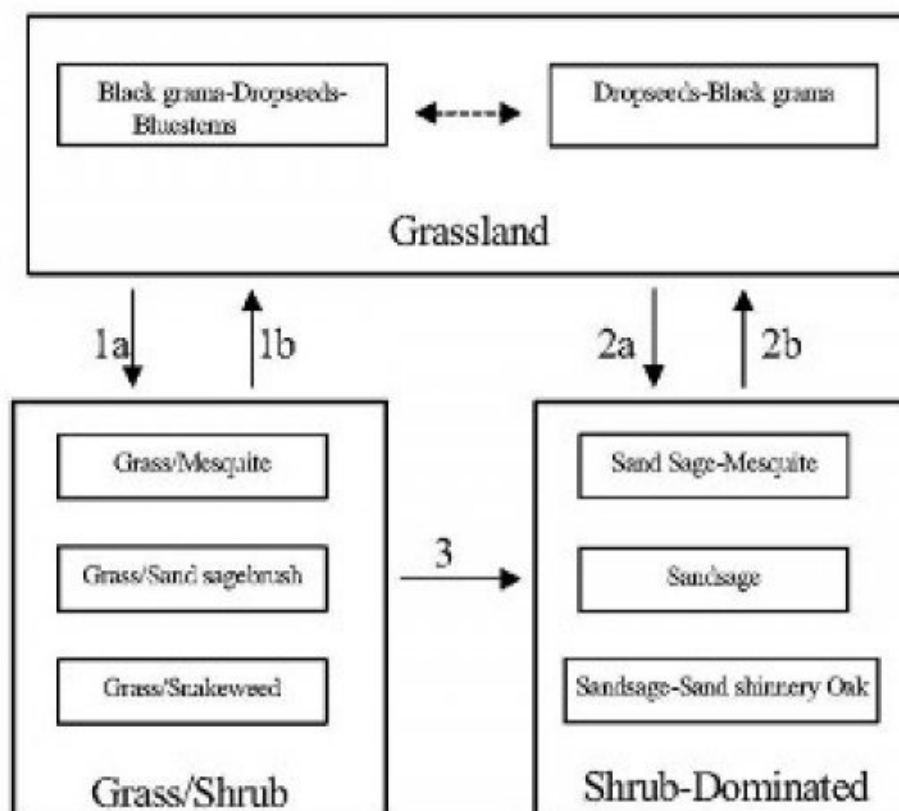
The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (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):

MLRA-42, SD-3, Loamy Sand



1a. Drought, over grazing, fire suppression.

1b. Brush control, prescribed grazing

2.a Severe loss of grass cover, fire suppression, erosion.

2b. Brush control, seeding, prescribed grazing.

3. Continued loss of grass cover, erosion.

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.

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Contributors

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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):

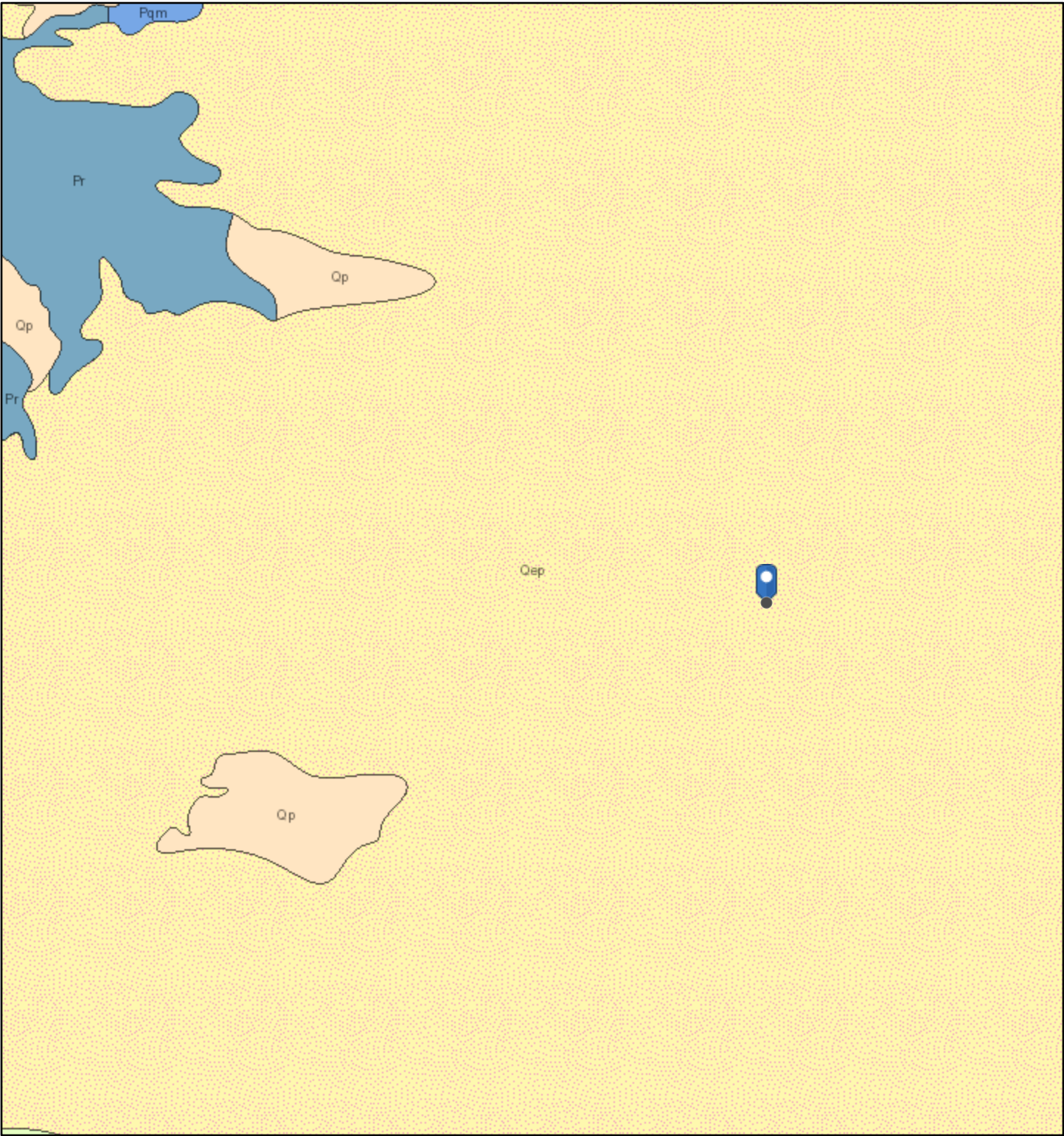
5. Number of gullies and erosion associated with gullies:

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:

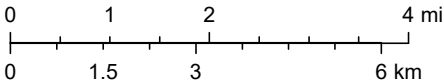
ArcGIS Web Map



3/30/2024, 9:01:43 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 B – Daily Field and Sampling Reports



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	1/20/2020
Site Location Name:	SDE 31 Federal CTB	Report Run Date:	1/21/2020 12:55 AM
Project Owner:	Amanda Davis	File (Project) #:	20E-00141
Project Manager:	Natalie Gordon	API #:	
Client Contact Name:	Amanda Davis	Reference	Spill 12-30-2019
Client Contact Phone #:	(575) 748-0176		

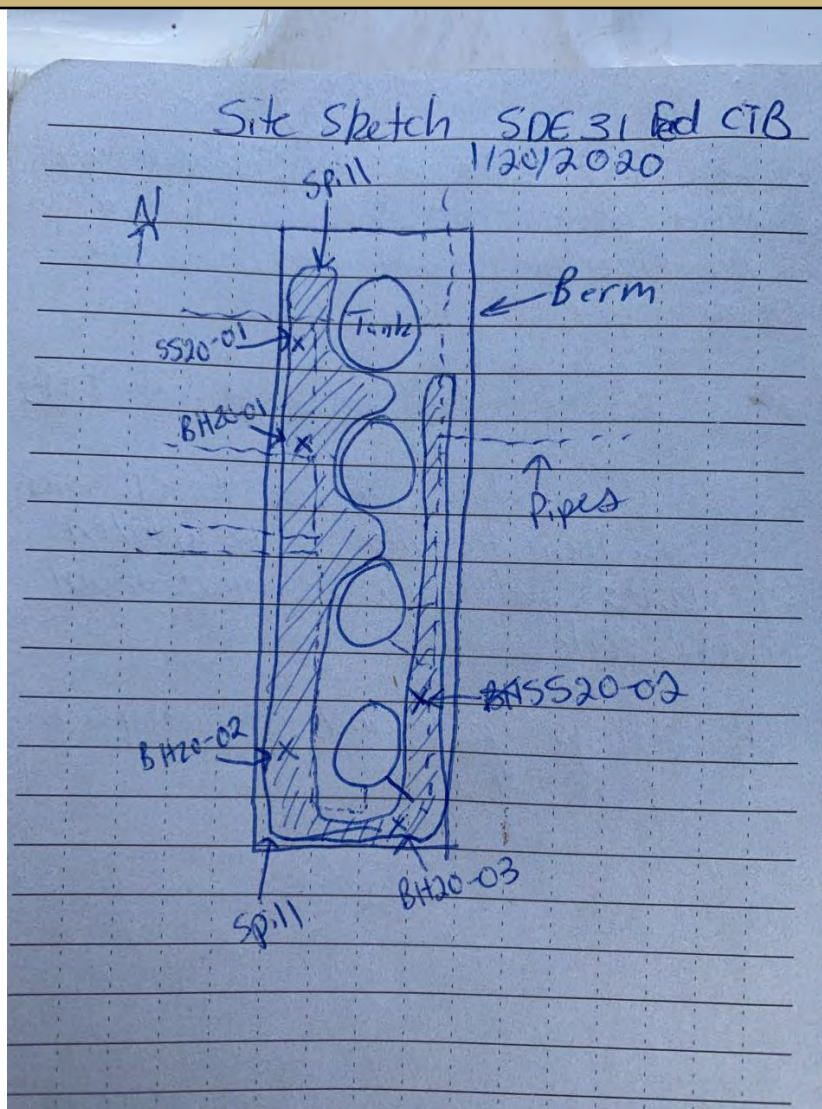
Summary of Times

Left Office	1/20/2020 9:05 AM
Arrived at Site	1/20/2020 10:50 AM
Departed Site	1/20/2020 3:20 PM
Returned to Office	1/20/2020 4:32 PM

Daily Site Visit Report



Site Sketch



Daily Site Visit Report



Summary of Daily Operations

Next Steps & Recommendations

1 Send samples to lab and await results

Sampling

BH20-01

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
1 ft.						✓	32.26461656, - 103.71658313	Yes
2 ft.					Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	See bh20-01 1', See bh20-01 1'	Yes

BH20-02

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
1 ft.						✓	32.26451615, - 103.71655917	Yes
2 ft.						✓	32.26451615, - 103.71655917	Yes



Daily Site Visit Report

BH20-03									
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?	
1 ft.					Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.26449284, -103.71649270	Yes	
2 ft.					Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.26449284, -103.71649270	Yes	
BH20-04									
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?	
1 ft.							32.26461642, -103.71649062	Yes	
2 ft.							32.26461642, -103.71649062	Yes	
SS20-01									
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?	
							,	No	

Daily Site Visit Report



0 ft.							32.26466632, - 103.71657033	Yes
SS20-02								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.					Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.26453883, - 103.71649400	Yes

Daily Site Visit Report



Site Photos

Viewing Direction: North



West end of tank battery spill

Viewing Direction: Southeast



Likely spill origin

Viewing Direction: South



West end of tanks/spill area

Viewing Direction: South



View of east side of tanks



Daily Site Visit Report

Viewing Direction: Northeast	Viewing Direction: South
 Descriptive Photo: Viewing Direction: Northeast Photo: Trace staining on outside of berm Created: 1/20/2020 11:05:07 AM Lat: 32.054943, Long: -103.718288	 Descriptive Photo: Viewing Direction: South Photo: BH20-01 Staining only at surface level Created: 1/20/2020 11:05:07 AM Lat: 32.054943, Long: -103.718288
Trace staining on outside of berm	BH20-01 Staining only at surface level

Daily Site Visit Report



Depth Sample Photos

Sample Point ID: BH20-01



Depth: 1 ft.

Sample Point ID: SS20-01



Depth: 0 ft.

Sample Point ID: BH20-02



Depth: 1 ft.

Sample Point ID: BH20-02



Depth: 2 ft.



Daily Site Visit Report

Sample Point ID: SS20-02



Depth: 0 ft.

Sample Point ID: BH20-03



Depth: 1 ft.

Sample Point ID: BH20-03



Depth: 2 ft.

Sample Point ID: BH20-04



Depth: 1 ft.



Daily Site Visit Report

Sample Point ID: BH20-04	
	
Depth: 2 ft.	

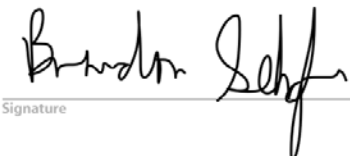
The photograph shows a sample point in a field. A yellow handheld GPS device is placed on the ground next to a small, circular hole. A clear plastic bag with a green top is also visible. In the background, there are some logs or pipes. The text 'Depth: 2 ft.' is overlaid on the bottom right of the photo.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Brandon Schafer

Signature: 
Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	
Site Location Name:	SDE 31 Federal 4	Report Run Date:	3/8/2023 12:22 AM
Client Contact Name:	Wes Matthews	API #:	30-025-32716
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site

Departed Site

Field Notes

16:09 Arrived on site, filled out safety paperwork.

16:09 Gathered samples 1 through 6 at 0' and 2' depths.

15:32 Tested samples for chlorides and hydrocarbons. Results are in soil sample report.

16:09 Filled out soil sample report.

16:09 Gathered site photos.

16:09 Jarred samples to send to lab.

16:09 Finished daily field report.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: North



Placard

Viewing Direction: South



Sample area

Viewing Direction: South



Sample area

Viewing Direction: East



Sample area



Daily Site Visit Report

Viewing Direction: West



Sample area

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Zachery Englebert

Signature:

A handwritten signature in black ink, appearing to read 'Zachery Englebert', written over a horizontal line. The word 'Signature' is printed in small text below the line on the left.



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	7/9/2023
Site Location Name:	SDE 31 Federal 4	Report Run Date:	7/9/2023 11:17 PM
Client Contact Name:	Dale Woodall	API #:	30-025-32716
Client Contact Phone #:	405-318-4697		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	7/9/2023 7:24 AM
Departed Site	7/9/2023 2:12 PM

Field Notes

7:32 Completed JSA on arrival. On site to continue delineation of three releases.

8:01 Swept sampling locations with magnetic locator prior to ground disturbance. Significant interference present due to steel infrastructure around sampling areas.

11:24 Advanced BH23-08 north of separator equipment.

11:25 Advanced BH23-09, BH23-10, and BH23-11 inside battery containment.

Next Steps & Recommendations

1 Continue delineation.

Daily Site Visit Report



Site Photos

Viewing Direction: East



South of north cattle guard facing east.

Viewing Direction: South



Northwest of tanks facing south. Advanced BH23-08 north of separator equipment.

Viewing Direction: South



Northeast of tanks facing south. Advanced BH23-09 inside containment west of north tank.

Viewing Direction: North



East of tanks facing north. Advanced BH23-10 inside containment west of tanks.



Daily Site Visit Report

Viewing Direction: West



Southeast of tanks facing west. Advanced BH23-11 inside containment south of tanks tank.

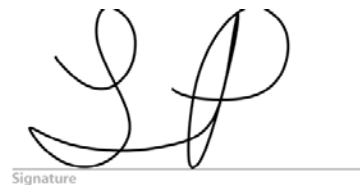
Daily Site Visit Report



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.



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	7/10/2023
Site Location Name:	SDE 31 Federal 4	Report Run Date:	7/11/2023 12:56 AM
Client Contact Name:	Dale Woodall	API #:	30-025-32716
Client Contact Phone #:	405-318-4697		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	7/10/2023 6:36 AM
Departed Site	7/10/2023 5:01 PM

Field Notes

6:46 Completed JSA on arrival. On site to continue delineation.

7:30 Marked all sampling points and swept areas with magnetic locator prior to ground disturbance.

13:20 Buried pipeline exposed when initially digging BH23-27. Moved BH23-27 east 3 feet.

14:54 Advanced Boreholes BH23-12 through BH33-37 to refine delineation.

16:35 Boreholes BH23-12, BH23-13, BH23-14, and BH23-16 advanced to 4 feet bgs. Borehole BH23-15 was advanced to 3 feet bgs due to refusal. Samples were collected at 0 and 2 feet bgs as well as the deepest point at each borehole.

16:36 Boreholes BH23-17 through BH23- 37 were advanced to 2 feet bgs with samples collected at 0 and 2 feet.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: East



South of north cattle guard facing east.

Viewing Direction: North



West of tanks facing north. Advanced BH23-20 on west side of pad.

Viewing Direction: South



Northwest of tanks facing south. Advanced BH23-22 north of Battery containment.

Viewing Direction: Northeast



West-southwest of tanks facing northeast. Advanced BH23-21 southwest of pump station.



Daily Site Visit Report

Viewing Direction: South



Northeast of tanks facing south. Advanced BH23-23 north of Battery containment.

Viewing Direction: South



East-northeast of tanks facing south. Advanced BH23-24 east of Battery containment.

Viewing Direction: West



Northeast of tanks facing west. Advanced BH23-25 northeast of Battery containment.

Viewing Direction: South



North edge of pad west of manifold facing south. Advanced BH23-26 southwest of manifold.



Daily Site Visit Report

Viewing Direction: South



South of manifold on north side of pad facing south. Pipeline exposed while digging.

Viewing Direction: South



South of manifold on north side of pad facing south. Advanced BH23-27 south of manifold and east of surface pipeline on north side of pad.

Viewing Direction: South



North side of pad facing south. Advanced BH23-28 north of separator equipment.

Viewing Direction: South



East of north tank facing south. Advanced BH23-12 inside tank containment west of tanks.



Daily Site Visit Report

Viewing Direction: Northwest



Northwest of treater facing northwest.
Advanced BH23-29 on east side of pad.

Viewing Direction: North



Southwest of treater facing north. Advanced
BH23-30 on east side of pad.

Viewing Direction: North



Southwest of treater facing north. Advanced
BH23-31 and BH23-32 south of separator
equipment.

Viewing Direction: East



East of tank battery facing east. Advanced
BH23-33 south of separator equipment.



Daily Site Visit Report

Viewing Direction: North



East of tank battery facing north. Advanced BH23-34 between tanks and separator equipment.

Viewing Direction: West



East of tank battery facing west. Advanced BH23-35 east of tank containment.

Viewing Direction: Northwest



East of south tank facing northwest. Advanced BH23-36 east of tank containment.

Viewing Direction: North



South of tanks facing north. Advanced BH23-37 south of tank containment.



Daily Site Visit Report

Viewing Direction: North



Southwest of south tank facing north.
Advanced BH23-13 west of south tank.

Viewing Direction: North



West of tanks facing north. Advanced BH23-14
between tanks and pump station.

Viewing Direction: East



West of tanks facing east. Advanced BH23-15
west of pump station.

Viewing Direction: South



West of tanks facing south. Advanced BH23-16
west of pumps.



Daily Site Visit Report

Viewing Direction: Southeast



Northwest of tanks facing southeast. Advanced BH23-17 northwest of pumps.

Viewing Direction: East



West-northwest of tanks facing east. Advanced BH23-18 on west side of pad.

Viewing Direction: North



West of tanks facing north. Advanced BH23-19 on west side of pad.

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.



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	7/11/2023
Site Location Name:	SDE 31 Federal CTB	Report Run Date:	7/11/2023 10:56 PM
Client Contact Name:	Dale Woodall	API #:	
Client Contact Phone #:	405-318-4697		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	7/11/2023 8:30 AM
Departed Site	7/11/2023 1:23 PM

Field Notes

8:41 On site, completed JSAs

8:47 Marking planned sampling areas and running secondary sweep with magnetic locator

10:33 Stepping out sample points that exceeded reclamation criteria

13:16 Horizontal delineation complete. All samples jarred and on ice

Next Steps & Recommendations

1 Remediation plan

Daily Site Visit Report



Site Photos

Viewing Direction: Northwest



Containment and a sampling area

Viewing Direction: South



BH23-50 0ft, 2ft

Viewing Direction: Southeast



BH23-48 0ft, 2ft

Viewing Direction: South



BH23-49 0ft, 2ft



Daily Site Visit Report

Viewing Direction: South



BH23-47 0ft, 2ft

Viewing Direction: South



BH23-44 0ft, 2ft

Viewing Direction: South



BH23-41 0ft, 2ft

Viewing Direction: South



BH23-42 0ft, 2ft



Daily Site Visit Report

Viewing Direction: West



BH23-43 0ft, 2ft

Viewing Direction: Northeast



East containment and sampling area

Viewing Direction: North



Western sampling area

Viewing Direction: East



Placard



Daily Site Visit Report

Viewing Direction: North



BH23-38 0ft, 2ft

Viewing Direction: East



BH23-39 0ft, 2ft

Viewing Direction: East



BH23-46 0ft, 2ft

Viewing Direction: Southeast



BH23-40 0ft, 2ft



Daily Site Visit Report

Viewing Direction: Southeast



BH23-45 0ft, 2ft

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sally Carttar

Signature:


Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	SDE 31 FED CTB	API #:	
Inspection Date:	8/19/2025		

Summary of Times

Arrived at Site	8/19/2025 8:00 AM
Departed Site	8/19/2025 4:00 PM

Daily Site Visit Report



Site Sketch

Site Sketch

Daily Site Visit Report



Field Notes

- 15:14 Completed safety paperwork on site
- 15:14 Continuing excavation and spot checking

Next Steps & Recommendations

- 1 Continue excavation

Daily Site Visit Report



Site Photos

Viewing Direction: South



Northeast corner of excavation within Battery

Viewing Direction: West



2' dig on east side of battery

Viewing Direction: West



.5' dig on North end of battery

Viewing Direction: South



.5' dig in Northeast corner of excavation



Daily Site Visit Report

Viewing Direction: Southeast



2' area inside battery on West side

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Austin Harris

Signature:

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

Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	SDE 31 Federal CTB	API #:	
Inspection Date:	8/20/2025		

Summary of Times

Arrived at Site	8/20/2025 8:00 AM
Departed Site	8/20/2025 3:00 PM

Field Notes

14:42 Completed safety paperwork on site

14:42 On site to continue dig on proposed excavation areas around pad

14:43 At approximately 1300 a stray rain event came through effecting site conditions and filling areas with water

14:43 No spot checking done today

16:09 Sun came back out and seemed to be drying things up for tomorrow

Next Steps & Recommendations

1 Continue excavating and begin confirmation sampling

Daily Site Visit Report



Site Photos

Viewing Direction: North



Northeast corner inside battery

Viewing Direction: East



East of tank battery near production equipment

Viewing Direction: South



Northeast corner inside battery

Viewing Direction: South



2' excavation on West side of battery filled with rain water



Daily Site Visit Report

Viewing Direction: Southwest



1' excavation area west of tank battery in driveway filled with rainwater

Viewing Direction: West



2' excavation West of battery

Viewing Direction: South



Southwest corner of battery

Viewing Direction: Northwest



East side of battery

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Austin Harris

Signature:

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

Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	SDE 31 FED CTB	API #:	
Inspection Date:	8/21/2025		

Summary of Times

Arrived at Site	8/21/2025 8:00 AM
Departed Site	8/21/2025 3:00 PM

Daily Site Visit Report



Site Sketch

Site Sketch

Daily Site Visit Report



Field Notes

14:41 Completed safety paperwork on site

14:41 On site to begin confirmation sampling around site

Next Steps & Recommendations

1 Continue confirmation sampling



Daily Site Visit Report

Site Photos

Viewing Direction: East



BS25-01 / WS25-01
At 1' depth
Excavated Area "D"

Viewing Direction: North



BS25-02 / WS25-02
At 1' depth
Excavated area "C"



Daily Site Visit Report

Viewing Direction: North  BS25-03 / WS25-03 At 1' depth Excavated area "E"	Viewing Direction: East  BS25-05 / WS25-05 At 1' depth Excavated area "F"
Viewing Direction: East  BS25-05 / WS24-05 At 1' depth Excavated area "A"	Viewing Direction: Northwest  BS25-06 / WS25-06 At 2.5' depth Excavated area "B"

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Austin Harris

Signature:

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

Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	SDE 31 Federal CTB	API #:	
Inspection Date:	8/27/2025		

Summary of Times

Arrived at Site	8/27/2025 7:38 AM
Departed Site	8/27/2025 4:52 PM

Field Notes

- 7:50** Completed JSA on arrival. On site to collect remaining confirmation samples from release area that has not been remediated.
- 8:00** Swept release area with magnetic locator prior to ground disturbance.
- 15:20** Collected confirmation samples BS25-68 through BS25-80 from release area on surface of pad east of the tank battery (0 feet bgs). Confirmation samples collected from the pad surface were 5-point composites representing areas no greater than 400 square feet per variance approved by NMOCD.
- 16:03** Field screening results for all samples were below closure criteria for chloride and TPH at DTGW between 51 and 100 feet bgs.
- 16:29** Packed samples for lab.
- 16:29** Confirmation sampling completed pending laboratory results.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: East



At north pad entrance facing east.

Viewing Direction: North



Southeast of tank battery facing north.
Collected BS25-68 through BS25-80 from
surface of east side of pad.



Daily Site Visit Report

Viewing Direction: Northeast



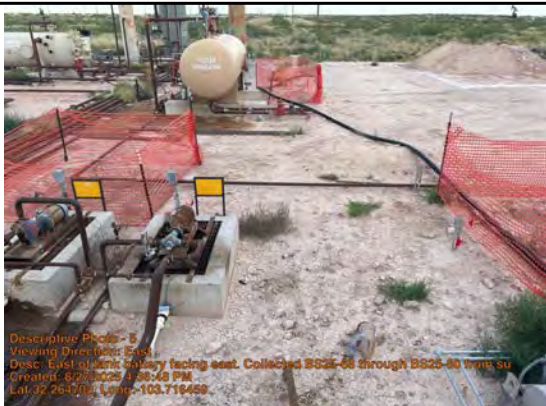
Southeast of tank battery facing northeast. Collected BS25-68 through BS25-80 from surface of east side of pad.

Viewing Direction: East



East of tank battery facing east. Collected BS25-68 through BS25-80 from surface of east side of pad.

Viewing Direction: East



East of tank battery facing east. Collected BS25-68 through BS25-80 from surface of east side of pad.

Viewing Direction: East



East of tank battery facing east. Collected BS25-68 through BS25-80 from surface of east side of pad.



Daily Site Visit Report

Viewing Direction: Southeast



Northeast of tank battery facing southeast. Collected BS25-68 through BS25-80 from surface of east side of pad.

Viewing Direction: South



Northeast of tank battery facing south. Collected BS25-68 through BS25-80 from surface of east side of pad.

Viewing Direction: Southwest



West side of pad facing southwest. Collected BS25-68 through BS25-80 from surface of east side of pad.

Viewing Direction: West



West side of pad facing west. Collected BS25-68 through BS25-80 from surface of east side of pad.



Daily Site Visit Report

Viewing Direction: West



West side of pad facing west. Collected BS25-68 through BS25-80 from surface of east side of pad.

Viewing Direction: West



West side of pad facing west. Collected BS25-68 through BS25-80 from surface of east side of pad.

Viewing Direction: North



West side of pad facing north. Collected BS25-68 through BS25-80 from surface of east side of pad.

Viewing Direction: Northwest



West side of pad facing northwest. Collected BS25-68 through BS25-80 from surface of east side of pad.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:


Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	SDE 31 Federal CTB	API #:	
Inspection Date:	9/11/2025		

Summary of Times

Arrived at Site	9/11/2025 8:38 AM
Departed Site	9/11/2025 3:02 PM

Field Notes

14:38 Completed safety paperwork upon arrival

14:38 Directed crew on where to continue excavating

14:38 Field screened to confirm no additional remediation was required

14:39 At 12:30pm confirmation sampling began

14:42 WS25-02, WS25-13 through 15, BS25-29, BS25-50, BS25-73, and BS25-81 through 83 were collected

14:51 Full site photographs are included in this DFR

Next Steps & Recommendations

1



Daily Site Visit Report

Site Photos

Viewing Direction: Northeast



Further excavation around base sample 29 was completed. The 400sqft area was excavated 0.25'.

Viewing Direction: Northwest



Wall sample 13, Base sample 29, and base sample 81 was collected in this area



Daily Site Visit Report

Viewing Direction: South



Further excavation around base sample 50 was completed. The 400sqft area was excavated 0.25'.

Viewing Direction: East



Wall sample 14, Base sample 50, and base sample 82 was collected in this area



Daily Site Visit Report

Viewing Direction: Southeast



Further excavation around base sample 73 was completed underneath lines. The 400sqft area was excavated 0.25'. The excavation can not be taken deeper in this area out of concern for the structure integrity of the equipment and safety when navigating this area.

Viewing Direction: Northwest



Wall sample 15, Base sample 73, and base sample 83 were collected in this area



Daily Site Visit Report

Viewing Direction: Southeast



WS25-02 was widened and sampled again

Viewing Direction: North



Further excavation in the containment cannot be done out of concerns of destabilization .
Any areas left above criteria will be deferred

Viewing Direction: North



Area west of the containment on pad

Viewing Direction: East



Area east of the containment on pad



Daily Site Visit Report

Viewing Direction: South



Area east of the containment on pad

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Katrina Taylor

Signature:

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



Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	SDE 31 Federal CTB	API #:	
Inspection Date:	10/1/2025		

Summary of Times

Arrived at Site	10/1/2025 3:01 PM
Departed Site	10/1/2025 3:01 PM

Field Notes

- 16:54** Completed safety paperwork upon arrival
- 16:55** Collected a five point composite of backfill sample to send to lab while crew backfilled excavations
- 16:55** Purpose of this DFR is to provide images that the excavations have been backfilled

Next Steps & Recommendations

- 1 Send backfill sample to lab

Daily Site Visit Report



Site Photos

Viewing Direction: Northeast



Site view of where the 0.25' excavation was around base sample 29. Area has been backfilled.

Viewing Direction: Northeast



Site view of where the 0.25' excavation was around base sample 29. Area has been backfilled.



Daily Site Visit Report

Viewing Direction: Southwest



Site view of where the 0.25' excavation was around base sample 50. Area has been backfilled.

Viewing Direction: Northeast



Site view of where the 0.25' excavation was around base sample 50. Area has been backfilled.

Viewing Direction: Southeast



Site view of where the 0.25' excavation was around base sample 79. Area has been backfilled.

Viewing Direction: Southeast



Site view of where the 0.25' excavation was around base sample 79. Area has been backfilled.



Daily Site Visit Report

Viewing Direction: Northwest



Site view of where the 0.25' excavation was around base sample 29 and wall sample 15. Area has been backfilled.

Viewing Direction: Northwest



Site view of where the WS25-02 excavation was. Area has been backfilled.

Viewing Direction: Northwest



Site view of where the WS25-02 excavation was. Area has been backfilled.

Viewing Direction: Northeast



Site view of where the excavation was in the containment area. Area has been backfilled.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sharon Minnix

Signature:

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



Daily Field Log

Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

01/30/2026

Location: SDE 31 Federal CTB

By: Katrina Taylor

Weather	Cold Partly Sunny	Contractor	
Staff On-site	Katrina Taylor	Contractor Crew	
Staff From Time	09:09	Equipment On Site	
Tailgate meeting conducted	Yes	Incident ID Number	nKJ1516742526, nRM2014559127

Work Summary:

To measure the accessibility of the deferral area for equipment maneuvering

Time	Observations
------	--------------

09:11:58	Notable amounts of water and snow are present on the surface.
----------	---

10:12:30	The most limited accessibility is in the center west of the berm where we should not need samples. The most limited accessibility where we do need samples is in the north of the pad.
----------	--

Pictures/Attachments

Date: 1/30/2026
Time: 09:33
Notes: In the northern area there's 19ft of space along the berm between the pipe and the stairs around deferral point BS25-07
Latitude: 32.26471111111111
Longitude: -103.71653611111111
Direction: NW



SDE 31 Federal CTB Lat: 32.26471, Lon: -103.71654 Accuracy: 1.00, Fri, Jan 30, 2026 10:12



Daily Field Log
Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

Pictures/Attachments

Date: 1/30/2026
Time: 09:36
Notes: 4ft 6inches of space between the above ground pipe and the berm edge around BS25-07
Latitude: 32.26471111111111
Longitude: -103.71652222222222
Direction: E



Date: 1/30/2026
Time: 09:38
Notes: 10ft of space between the sign and the stairs along the berm to the north of BS25-08
Latitude: 32.26471111111111
Longitude: -103.71660555555556
Direction: E





Daily Field Log
Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

Pictures/Attachments

Date: 1/30/2026
Time: 09:41
Notes: 12ft of space between the north of the berm and the pipe along BS25-08. The pipe begins 10 inches off the ground and is 4 inches tall.
Latitude: 32.2646777777778
Longitude: -103.71658333333333
Direction: S



Date: 1/30/2026
Time: 09:44
Notes: 9ft of space between the tank and the edge of the berm along the west of the pad around BS25-08
Latitude: 32.2646777777778
Longitude: -103.7165138888889
Direction: N





Daily Field Log
Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

Pictures/Attachments

Date: 1/30/2026
Time: 09:46
Notes: 19ft of space between the tank and the surface equipment along the west of the pad around BS25-08
Latitude: 32.2646777777778
Longitude: -103.7165916666667
Direction: NW



Date: 1/30/2026
Time: 09:49
Notes: 6ft10in of space between the sign and surface equipment in the northwest corner near BS25-08
Latitude: 32.2646777777778
Longitude: -103.7165833333333
Direction: E



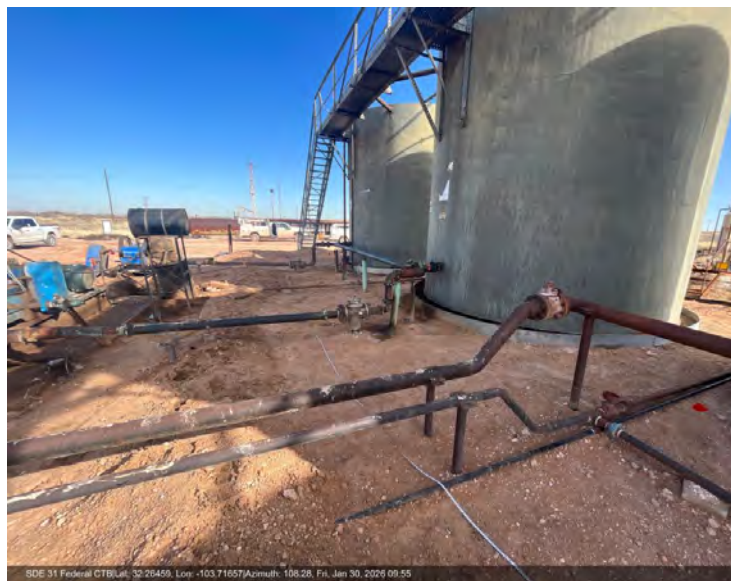


Daily Field Log

Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

Pictures/Attachments

Date: 1/30/2026
Time: 09:55
Notes: 32ft long section on the west of the berm between the northern most tank and the second tank to the north is completely inaccessible due to above ground lines and surface equipment. This area is near BS25-09 and should not need a borehole.
Latitude: 32.264586111111115
Longitude: -103.71656944444445
Direction: S



Date: 1/30/2026
Time: 09:59
Notes: 5ft of space between the edge of the berm and the above ground pipe near BS25-10. Area is accessible to the west and southwest off the berm.
Latitude: 32.264555555555555
Longitude: -103.71655277777778
Direction: S





Daily Field Log

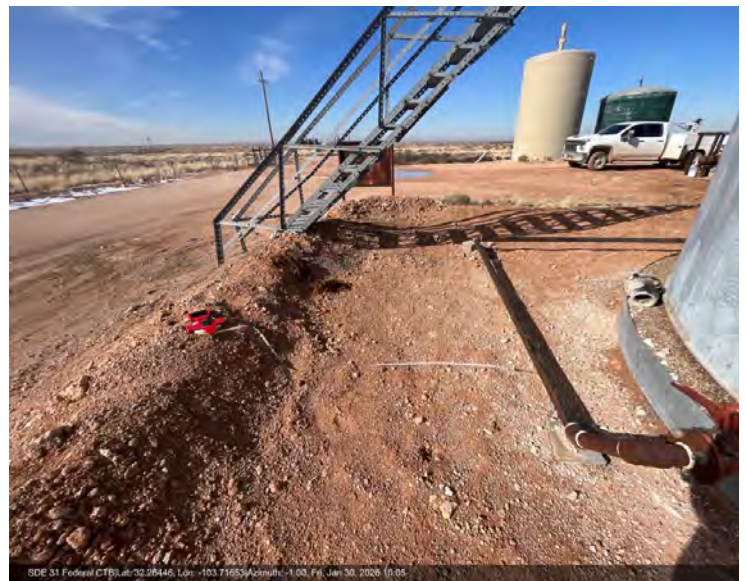
Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

Pictures/Attachments

Date: 1/30/2026
Time: 10:02
Notes: 4.5ft of space between the edge of the berm and the above ground pipe near BS25-11. Area is accessible off the berm. The berm in this area is the least steep slope at approximately 4ft wide and 2.5ft tall.
Latitude: 32.2645277777778
Longitude: -103.7165444444445
Direction: W



Date: 1/30/2026
Time: 10:05
Notes: 4ft10in of space between the edge of the berm and the above ground pipe near BS25-12. Area is accessible off the berm to the south. There's a borehole here —BH23-11— to strictest criteria.
Latitude: 32.2644638888889
Longitude: -103.7165305555556
Direction: S





Daily Field Log
Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

Pictures/Attachments

Date: 1/30/2026
Time: 10:10
Notes: To the north the berm is about 8ft wide and 4ft tall.
The berm has a steeper slope towards the pad then
toward the containment
Latitude: 32.26471111111111
Longitude: -103.71649166666667
Direction: W



Date: 1/30/2026
Time: 10:15
Notes: Limited accessibility outside the berm only exists from
the northwest corner dining 43ft down due to surface
equipment. The rest of the area is accessible
Latitude: 32.264738888888886
Longitude: -103.71656111111112
Direction: NE





Daily Field Log
Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

Pictures/Attachments

Date: 1/30/2026
Time: 10:17
Notes: Limited accessibility to the northwest of the berm
Latitude: 32.264738888888886
Longitude: -103.71669722222222
Direction: E



Date: 1/30/2026
Time: 10:18
Notes: Open accessibility to the southwest of the berm
Latitude: 32.26452777777778
Longitude: -103.71668055555556
Direction: E





Daily Field Log
Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

05/01/2026

Location: SDE 31 Federal CTB

By: Austin Harris

Weather	Cloudy Chilly Rain	Contractor	Dupree
Staff On-site	Austin Harris	Contractor Crew	
Staff From Time		Equipment On Site	Motorized hand auger
Tailgate meeting conducted	Yes	Incident ID Number	

Work Summary:

Vertical delineation augering

Time	Observations
------	--------------

08:49:25	Completed safety paperwork and tailate meeting with Dupree
----------	--

08:49:47	On site to vertical delineate deferral points inside bermed battery
----------	---

08:50:07	Obtained today: BS25-12 from 1-9' bgs BS25-11 from 1-7' bgs (cleans up at 4', obtained a few more feet for due diligence) WS25-09 from 1-10' bgs
----------	---

14:38:24	Notable rock layer approximately 8' bgs where chloride numbers greatly reduce. Confining layer possibly preventing contaminant penetration.
----------	---

Inspector: Austin Harris



Daily Field Log
Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

Pictures/Attachments

Date: 5/1/2026
Time: 08:51
Notes: Placard
Latitude: -6.8597
Longitude: 79.0201
Direction: W



Date: 5/1/2026
Time: 08:51
Notes: BS25-12 on base and WS25-09 on south (right) wall.
Latitude: -6.8597
Longitude: 79.0201
Direction: W





Daily Field Log

Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

Pictures/Attachments

Date: 5/1/2026
Time: 08:51
Notes: BS25-11 west of southern most tank
Latitude: -6.8597
Longitude: 79.0201
Direction: W



Date: 5/1/2026
Time: 08:51
Notes: BS25-10 west of middle tank
Latitude: -6.8597
Longitude: 79.0201
Direction: W





Daily Field Log

Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

Pictures/Attachments

Date: 5/1/2026
Time: 08:51
Notes: BS25-08 in northwest corner inside battery
Latitude: -6.8597
Longitude: 79.0201
Direction: W



Date: 5/1/2026
Time: 08:51
Notes: BS25-07 directly north, of northern most tank
Latitude: -6.8597
Longitude: 79.0201
Direction: W





Daily Field Log

Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

Pictures/Attachments

Date: 5/1/2026
Time: 16:02
Notes: BS25-11 on west side of southernmost tank.
Latitude: 32.2863055555555
Longitude: -103.6987527777778
Direction: N





Daily Field Log
Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

Pictures/Attachments

Date: 5/1/2026
Time: 14:39
Notes: BS25-12 on left, WS25-09 on right, both on south side of southern most tank.
Latitude: -6.8597
Longitude: 79.0201
Direction: W





Daily Field Log

Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

05/02/2026

Location: SDE 31 Federal CTB

By: Austin Harris

Weather	Chilly Cloudy	Contractor	Dupree
Staff On-site	Austin Harris	Contractor Crew	
Staff From Time		Equipment On Site	
Tailgate meeting conducted	Yes	Incident ID Number	

Work Summary:

Vertical delineation

Time	Observations
------	--------------

08:35:06	Completed safety paperwork and tailgate with Dupree representatives before work.
08:35:32	On site to vertical delineate specified points in correspondence with deferral requirements
08:36:03	Obtained: BS25-10 from 1' to 9' bgs.
08:37:02	West side of site seems to clean up a bit shallower
17:15:27	Stopped work at 1030AM due to line strike. Separate Incident report filled out.

Inspector: Austin Harris



Daily Field Log

Site: SDE 31 Federal CTB
Client: Devon Energy Production Company

Pictures/Attachments

Date: 5/2/2026
Time: 12:03
Notes: Placard
Latitude: -6.8597
Longitude: 79.0201
Direction: SE



Date: 5/2/2026
Time: 12:03
Notes: BS25-10 on west side of tanks near middle
Latitude: -6.8597
Longitude: 79.0201
Direction: SE



APPENDIX C – 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

January 28, 2020

Natalie Gordon

Vertex Resource Group Ltd.

213 S. Mesa St

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: SDE 31 Fed CTB

OrderNo.: 2001883

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/22/2020 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 2001883

Date Reported: 1/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Client Sample ID: BH20-01 1'-2'

Project: SDE 31 Fed CTB

Collection Date: 1/20/2020 12:05:00 PM

Lab ID: 2001883-001

Matrix: SOIL

Received Date: 1/22/2020 3:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	59	9.0		mg/Kg	1	1/23/2020 12:01:36 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/23/2020 12:01:36 PM
Surr: DNOP	117	55.1-146		%Rec	1	1/23/2020 12:01:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/24/2020 3:57:07 AM
Surr: BFB	84.6	66.6-105		%Rec	1	1/24/2020 3:57:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	1/24/2020 3:57:07 AM
Toluene	ND	0.047		mg/Kg	1	1/24/2020 3:57:07 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/24/2020 3:57:07 AM
Xylenes, Total	ND	0.093		mg/Kg	1	1/24/2020 3:57:07 AM
Surr: 4-Bromofluorobenzene	92.8	80-120		%Rec	1	1/24/2020 3:57:07 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	920	60		mg/Kg	20	1/24/2020 1:47:45 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2001883

Date Reported: 1/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Client Sample ID: SS20-02 0"

Project: SDE 31 Fed CTB

Collection Date: 1/20/2020 12:45:00 PM

Lab ID: 2001883-002

Matrix: SOIL

Received Date: 1/22/2020 3:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	20000	890		mg/Kg	100	1/23/2020 12:10:45 PM
Motor Oil Range Organics (MRO)	9900	4500		mg/Kg	100	1/23/2020 12:10:45 PM
Surr: DNOP	0	55.1-146	S	%Rec	100	1/23/2020 12:10:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	980	24		mg/Kg	5	1/24/2020 4:20:23 AM
Surr: BFB	713	66.6-105	S	%Rec	5	1/24/2020 4:20:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.81	0.12		mg/Kg	5	1/24/2020 4:20:23 AM
Toluene	24	0.24		mg/Kg	5	1/24/2020 4:20:23 AM
Ethylbenzene	13	0.24		mg/Kg	5	1/24/2020 4:20:23 AM
Xylenes, Total	53	0.48		mg/Kg	5	1/24/2020 4:20:23 AM
Surr: 4-Bromofluorobenzene	173	80-120	S	%Rec	5	1/24/2020 4:20:23 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	120	60		mg/Kg	20	1/24/2020 2:00:05 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 10

Analytical Report

Lab Order 2001883

Date Reported: 1/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Client Sample ID: BH20-03 0-1'

Project: SDE 31 Fed CTB

Collection Date: 1/20/2020 1:15:00 PM

Lab ID: 2001883-003

Matrix: SOIL

Received Date: 1/22/2020 3:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	6400	470		mg/Kg	50	1/23/2020 12:19:54 PM
Motor Oil Range Organics (MRO)	2500	2300		mg/Kg	50	1/23/2020 12:19:54 PM
Surr: DNOP	0	55.1-146	S	%Rec	50	1/23/2020 12:19:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1000	92		mg/Kg	20	1/26/2020 11:34:20 AM
Surr: BFB	272	66.6-105	S	%Rec	20	1/26/2020 11:34:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.65	0.023		mg/Kg	1	1/24/2020 2:58:54 PM
Toluene	19	0.92		mg/Kg	20	1/26/2020 11:34:20 AM
Ethylbenzene	10	0.92		mg/Kg	20	1/26/2020 11:34:20 AM
Xylenes, Total	41	1.8		mg/Kg	20	1/26/2020 11:34:20 AM
Surr: 4-Bromofluorobenzene	120	80-120		%Rec	20	1/26/2020 11:34:20 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	120	60		mg/Kg	20	1/24/2020 2:12:26 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 10

Analytical Report

Lab Order 2001883

Date Reported: 1/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Client Sample ID: BH20-03 1-2'

Project: SDE 31 Fed CTB

Collection Date: 1/20/2020 1:25:00 PM

Lab ID: 2001883-004

Matrix: SOIL

Received Date: 1/22/2020 3:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	650	19		mg/Kg	2	1/23/2020 4:40:26 PM
Motor Oil Range Organics (MRO)	300	96		mg/Kg	2	1/23/2020 4:40:26 PM
Surr: DNOP	116	55.1-146		%Rec	2	1/23/2020 4:40:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	54	4.8		mg/Kg	1	1/24/2020 3:45:51 PM
Surr: BFB	400	66.6-105	S	%Rec	1	1/24/2020 3:45:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	1/24/2020 3:45:51 PM
Toluene	0.25	0.048		mg/Kg	1	1/24/2020 3:45:51 PM
Ethylbenzene	0.37	0.048		mg/Kg	1	1/24/2020 3:45:51 PM
Xylenes, Total	1.6	0.096		mg/Kg	1	1/24/2020 3:45:51 PM
Surr: 4-Bromofluorobenzene	123	80-120	S	%Rec	1	1/24/2020 3:45:51 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	94	60		mg/Kg	20	1/24/2020 2:24:48 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2001883

28-Jan-20

Client: Vertex Resource Group Ltd.
Project: SDE 31 Fed CTB

Sample ID: MB-50025		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 50025		RunNo: 66053						
Prep Date: 1/24/2020		Analysis Date: 1/24/2020		SeqNo: 2269609		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-50025		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 50025		RunNo: 66053						
Prep Date: 1/24/2020		Analysis Date: 1/24/2020		SeqNo: 2269611		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 range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2001883

28-Jan-20

Client: Vertex Resource Group Ltd.
Project: SDE 31 Fed CTB

Sample ID: LCS-49989	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 49989	RunNo: 66004								
Prep Date: 1/23/2020	Analysis Date: 1/23/2020	SeqNo: 2266978	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	100	63.9	124			
Surr: DNOP	4.5		5.000		89.5	55.1	146			

Sample ID: MB-49989	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 49989	RunNo: 66004								
Prep Date: 1/23/2020	Analysis Date: 1/23/2020	SeqNo: 2266979	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	9.3		10.00		93.0	55.1	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 range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2001883

28-Jan-20

Client: Vertex Resource Group Ltd.**Project:** SDE 31 Fed CTB

Sample ID: mb-49978	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 49978			RunNo: 66017						
Prep Date: 1/22/2020	Analysis Date: 1/23/2020			SeqNo: 2267664		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	66.6	105			

Sample ID: lcs-49978	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 49978			RunNo: 66017						
Prep Date: 1/22/2020	Analysis Date: 1/23/2020			SeqNo: 2267665		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	92.7	80	120			
Surr: BFB	990		1000		99.4	66.6	105			

Sample ID: mb-49997	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 49997			RunNo: 66055						
Prep Date: 1/23/2020	Analysis Date: 1/24/2020			SeqNo: 2268909		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		1000		92.4	66.6	105			

Sample ID: lcs-49997	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 49997			RunNo: 66055						
Prep Date: 1/23/2020	Analysis Date: 1/24/2020			SeqNo: 2268910		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.3	66.6	105			

Sample ID: mb-50005	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 50005			RunNo: 66055						
Prep Date: 1/23/2020	Analysis Date: 1/25/2020			SeqNo: 2268933		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	810		1000		81.2	66.6	105			

Sample ID: lcs-50005	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 50005			RunNo: 66055						
Prep Date: 1/23/2020	Analysis Date: 1/25/2020			SeqNo: 2268934		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	860		1000		86.2	66.6	105			

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 range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2001883

28-Jan-20

Client: Vertex Resource Group Ltd.
Project: SDE 31 Fed CTB

Sample ID: MB-50043		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS		Batch ID: 50043		RunNo: 66068							
Prep Date: 1/24/2020		Analysis Date: 1/27/2020		SeqNo: 2269049			Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		770		1000		77.0	66.6	105			

Sample ID: LCS-50043		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS		Batch ID: 50043		RunNo: 66068							
Prep Date: 1/24/2020		Analysis Date: 1/27/2020		SeqNo: 2269050			Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		890		1000		89.0	66.6	105			

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 range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

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#: 2001883

28-Jan-20

Client: Vertex Resource Group Ltd.**Project:** SDE 31 Fed CTB

Sample ID: mb-49978	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 49978	RunNo: 66017								
Prep Date: 1/22/2020	Analysis Date: 1/23/2020	SeqNo: 2267696	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	80	120			

Sample ID: LCS-49978	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 49978	RunNo: 66017								
Prep Date: 1/22/2020	Analysis Date: 1/23/2020	SeqNo: 2267697	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.8	80	120			
Toluene	0.96	0.050	1.000	0	96.3	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: mb-50005	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 50005	RunNo: 66055								
Prep Date: 1/23/2020	Analysis Date: 1/25/2020	SeqNo: 2268950	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	80	120			

Sample ID: LCS-50005	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 50005	RunNo: 66055								
Prep Date: 1/23/2020	Analysis Date: 1/25/2020	SeqNo: 2268951	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.91		1.000		90.6	80	120			

Sample ID: MB-50043	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 50043	RunNo: 66068								
Prep Date: 1/24/2020	Analysis Date: 1/27/2020	SeqNo: 2269077	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.87		1.000		86.6	80	120			

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 range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2001883
28-Jan-20

Client: Vertex Resource Group Ltd.
Project: SDE 31 Fed CTB

Sample ID: LCS-50043		SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS		Batch ID: 50043			RunNo: 66068						
Prep Date: 1/24/2020		Analysis Date: 1/27/2020			SeqNo: 2269078		Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene		0.88		1.000		87.7	80	120			

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 range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- 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 CARLSBAD

Work Order Number: 2001883

RcptNo: 1

Received By: Desiree Dominguez 1/22/2020 3:30:00 PM

Completed By: Erin Melendrez 1/22/2020 4:13:35 PM

Reviewed By: *EM* 1/22/20

DD
EM

Chain of Custody

1. Is Chain of Custody sufficiently 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: *DM* 1/22/20Special 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	2.4	Good				

Turn-Around Time: 5 day

☒ **Standard** ☐ **Rush**

Project Name: **SOE 31 Fed CTB**

Project #: 20E-00141-005

Project Manager: Natalie Gordon

Sampler: Brandon Scheffer

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

On Ice: ☒ Yes ☐ No

☐ NELAC ☐ Other☐ EDD (Type)

of Coolers: 1

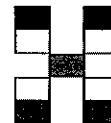
[illegible]

Date: 11/20	Time: 1:40	Relinquished by: Brandon R. [Signature]
----------------	---------------	--

Received by:	Via:	Date	Time
		1/21/20	1400

Date:	Time:	Relinquished by:
1/24/20	1900	

Received by:  Via: _____ Date: 1/22/20 Time: 15:30



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

March 17, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: SDE 31 Federal 4

OrderNo.: 2303491

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 3/9/2023 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 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 2303491

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-01 0'

Project: SDE 31 Federal 4

Collection Date: 3/7/2023 9:30:00 AM

Lab ID: 2303491-001

Matrix: SOIL

Received Date: 3/9/2023 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	2200	92		mg/Kg	10	3/10/2023 3:44:02 PM
Motor Oil Range Organics (MRO)	1600	460		mg/Kg	10	3/10/2023 3:44:02 PM
Surr: DNOP	0	69-147	S	%Rec	10	3/10/2023 3:44:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/11/2023 6:33:53 AM
Surr: BFB	102	37.7-212		%Rec	1	3/11/2023 6:33:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/11/2023 6:33:53 AM
Toluene	ND	0.046		mg/Kg	1	3/11/2023 6:33:53 AM
Ethylbenzene	ND	0.046		mg/Kg	1	3/11/2023 6:33:53 AM
Xylenes, Total	ND	0.092		mg/Kg	1	3/11/2023 6:33:53 AM
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	3/11/2023 6:33:53 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	160	60		mg/Kg	20	3/13/2023 10:55:25 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.		

Analytical Report

Lab Order 2303491

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-01 2'

Project: SDE 31 Federal 4

Collection Date: 3/7/2023 9:45:00 AM

Lab ID: 2303491-002

Matrix: SOIL

Received Date: 3/9/2023 7:43:00 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	3/14/2023 8:30:16 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/14/2023 8:30:16 AM
Surr: DNOP	91.4	69-147		%Rec	1	3/14/2023 8:30:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/11/2023 6:57:31 AM
Surr: BFB	107	37.7-212		%Rec	1	3/11/2023 6:57:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/11/2023 6:57:31 AM
Toluene	ND	0.048		mg/Kg	1	3/11/2023 6:57:31 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/11/2023 6:57:31 AM
Xylenes, Total	ND	0.097		mg/Kg	1	3/11/2023 6:57:31 AM
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	3/11/2023 6:57:31 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	62	60		mg/Kg	20	3/13/2023 11:07:50 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 2303491

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-02 0'

Project: SDE 31 Federal 4

Collection Date: 3/7/2023 10:00:00 AM

Lab ID: 2303491-003

Matrix: SOIL

Received Date: 3/9/2023 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	270	8.8		mg/Kg	1	3/14/2023 8:53:48 AM
Motor Oil Range Organics (MRO)	270	44		mg/Kg	1	3/14/2023 8:53:48 AM
Surr: DNOP	99.8	69-147		%Rec	1	3/14/2023 8:53:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2023 7:21:17 AM
Surr: BFB	104	37.7-212		%Rec	1	3/11/2023 7:21:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/11/2023 7:21:17 AM
Toluene	ND	0.049		mg/Kg	1	3/11/2023 7:21:17 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2023 7:21:17 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/11/2023 7:21:17 AM
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	3/11/2023 7:21:17 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	110	59		mg/Kg	20	3/13/2023 11:20:14 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 2303491

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-02 2'

Project: SDE 31 Federal 4

Collection Date: 3/7/2023 10:15:00 AM

Lab ID: 2303491-004

Matrix: SOIL

Received Date: 3/9/2023 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/14/2023 5:04:23 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/14/2023 5:04:23 PM
Surr: DNOP	88.8	69-147		%Rec	1	3/14/2023 5:04:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2023 7:45:10 AM
Surr: BFB	105	37.7-212		%Rec	1	3/11/2023 7:45:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/11/2023 7:45:10 AM
Toluene	ND	0.049		mg/Kg	1	3/11/2023 7:45:10 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2023 7:45:10 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/11/2023 7:45:10 AM
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	3/11/2023 7:45:10 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	90	60		mg/Kg	20	3/13/2023 11:57:29 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 2303491

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 0'

Project: SDE 31 Federal 4

Collection Date: 3/7/2023 10:30:00 AM

Lab ID: 2303491-005

Matrix: SOIL

Received Date: 3/9/2023 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/14/2023 5:27:59 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/14/2023 5:27:59 PM
Surr: DNOP	108	69-147		%Rec	1	3/14/2023 5:27:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/11/2023 8:09:04 AM
Surr: BFB	106	37.7-212		%Rec	1	3/11/2023 8:09:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/11/2023 8:09:04 AM
Toluene	ND	0.050		mg/Kg	1	3/11/2023 8:09:04 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/11/2023 8:09:04 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/11/2023 8:09:04 AM
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	3/11/2023 8:09:04 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1600	60		mg/Kg	20	3/14/2023 11:37:12 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 2303491

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 2'

Project: SDE 31 Federal 4

Collection Date: 3/7/2023 10:45:00 AM

Lab ID: 2303491-006

Matrix: SOIL

Received Date: 3/9/2023 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/14/2023 5:51:37 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/14/2023 5:51:37 PM
Surr: DNOP	116	69-147		%Rec	1	3/14/2023 5:51:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/11/2023 8:32:59 AM
Surr: BFB	108	37.7-212		%Rec	1	3/11/2023 8:32:59 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/11/2023 8:32:59 AM
Toluene	ND	0.047		mg/Kg	1	3/11/2023 8:32:59 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/11/2023 8:32:59 AM
Xylenes, Total	ND	0.094		mg/Kg	1	3/11/2023 8:32:59 AM
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	3/11/2023 8:32:59 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1900	60		mg/Kg	20	3/14/2023 12:14:15 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.		

Analytical Report

Lab Order 2303491

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-04 0'

Project: SDE 31 Federal 4

Collection Date: 3/7/2023 11:00:00 AM

Lab ID: 2303491-007

Matrix: SOIL

Received Date: 3/9/2023 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/14/2023 6:15:17 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/14/2023 6:15:17 PM
Surr: DNOP	96.7	69-147		%Rec	1	3/14/2023 6:15:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/11/2023 8:56:41 AM
Surr: BFB	106	37.7-212		%Rec	1	3/11/2023 8:56:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/11/2023 8:56:41 AM
Toluene	ND	0.047		mg/Kg	1	3/11/2023 8:56:41 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/11/2023 8:56:41 AM
Xylenes, Total	ND	0.094		mg/Kg	1	3/11/2023 8:56:41 AM
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	3/11/2023 8:56:41 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/14/2023 1:15:59 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 2303491

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-04 2'

Project: SDE 31 Federal 4

Collection Date: 3/7/2023 11:15:00 AM

Lab ID: 2303491-008

Matrix: SOIL

Received Date: 3/9/2023 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/14/2023 6:38:54 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/14/2023 6:38:54 PM
Surr: DNOP	93.9	69-147		%Rec	1	3/14/2023 6:38:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2023 9:20:20 AM
Surr: BFB	108	37.7-212		%Rec	1	3/11/2023 9:20:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/11/2023 9:20:20 AM
Toluene	ND	0.049		mg/Kg	1	3/11/2023 9:20:20 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2023 9:20:20 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/11/2023 9:20:20 AM
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	3/11/2023 9:20:20 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	99	60		mg/Kg	20	3/14/2023 1:28:20 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 2303491

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-05 0'

Project: SDE 31 Federal 4

Collection Date: 3/7/2023 11:30:00 AM

Lab ID: 2303491-009

Matrix: SOIL

Received Date: 3/9/2023 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	3/14/2023 7:02:26 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/14/2023 7:02:26 PM
Surr: DNOP	91.5	69-147		%Rec	1	3/14/2023 7:02:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2023 10:07:21 AM
Surr: BFB	106	37.7-212		%Rec	1	3/11/2023 10:07:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/11/2023 10:07:21 AM
Toluene	ND	0.049		mg/Kg	1	3/11/2023 10:07:21 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2023 10:07:21 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/11/2023 10:07:21 AM
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	3/11/2023 10:07:21 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2400	150		mg/Kg	50	3/15/2023 11:32:18 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.		

Analytical Report

Lab Order 2303491

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-05 2'

Project: SDE 31 Federal 4

Collection Date: 3/7/2023 11:45:00 AM

Lab ID: 2303491-010

Matrix: SOIL

Received Date: 3/9/2023 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	540	10		mg/Kg	1	3/13/2023 6:51:19 PM
Motor Oil Range Organics (MRO)	420	50		mg/Kg	1	3/13/2023 6:51:19 PM
Surr: DNOP	107	69-147		%Rec	1	3/13/2023 6:51:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/11/2023 10:31:03 AM
Surr: BFB	102	37.7-212		%Rec	1	3/11/2023 10:31:03 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/11/2023 10:31:03 AM
Toluene	ND	0.047		mg/Kg	1	3/11/2023 10:31:03 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/11/2023 10:31:03 AM
Xylenes, Total	ND	0.094		mg/Kg	1	3/11/2023 10:31:03 AM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	3/11/2023 10:31:03 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	3100	150		mg/Kg	50	3/15/2023 11:44:39 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.		

Analytical Report

Lab Order 2303491

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-06 0'

Project: SDE 31 Federal 4

Collection Date: 3/7/2023 1:00:00 PM

Lab ID: 2303491-011

Matrix: SOIL

Received Date: 3/9/2023 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/14/2023 7:26:01 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/14/2023 7:26:01 PM
Surr: DNOP	99.9	69-147		%Rec	1	3/14/2023 7:26:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/11/2023 10:54:47 AM
Surr: BFB	104	37.7-212		%Rec	1	3/11/2023 10:54:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/11/2023 10:54:47 AM
Toluene	ND	0.046		mg/Kg	1	3/11/2023 10:54:47 AM
Ethylbenzene	ND	0.046		mg/Kg	1	3/11/2023 10:54:47 AM
Xylenes, Total	ND	0.093		mg/Kg	1	3/11/2023 10:54:47 AM
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	3/11/2023 10:54:47 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	260	60		mg/Kg	20	3/14/2023 2:05:22 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 2303491

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-06 2'

Project: SDE 31 Federal 4

Collection Date: 3/7/2023 1:15:00 PM

Lab ID: 2303491-012

Matrix: SOIL

Received Date: 3/9/2023 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/14/2023 8:13:08 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/14/2023 8:13:08 PM
Surr: DNOP	89.6	69-147		%Rec	1	3/14/2023 8:13:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2023 11:18:36 AM
Surr: BFB	105	37.7-212		%Rec	1	3/11/2023 11:18:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/11/2023 11:18:36 AM
Toluene	ND	0.049		mg/Kg	1	3/11/2023 11:18:36 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2023 11:18:36 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/11/2023 11:18:36 AM
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	3/11/2023 11:18:36 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	210	60		mg/Kg	20	3/14/2023 2:17:42 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.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303491

17-Mar-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 4

Sample ID: LCS-73680	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73680		RunNo: 95243							
Prep Date: 3/13/2023	Analysis Date: 3/13/2023		SeqNo: 3444558		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			

Sample ID: MB-73690	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73690		RunNo: 95280							
Prep Date: 3/14/2023	Analysis Date: 3/14/2023		SeqNo: 3446124		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73690	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73690		RunNo: 95280							
Prep Date: 3/14/2023	Analysis Date: 3/14/2023		SeqNo: 3446125		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

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

WO#: 2303491

17-Mar-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 4

Sample ID: LCS-73598	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73598		RunNo: 95220							
Prep Date: 3/9/2023	Analysis Date: 3/10/2023		SeqNo: 3444060		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		108	69	147			

Sample ID: LCS-73599	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73599		RunNo: 95220							
Prep Date: 3/9/2023	Analysis Date: 3/10/2023		SeqNo: 3444061		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.1	69	147			

Sample ID: LCS-73626	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73626		RunNo: 95220							
Prep Date: 3/9/2023	Analysis Date: 3/10/2023		SeqNo: 3444064		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	81.6	61.9	130			
Surr: DNOP	4.3		5.000		85.6	69	147			

Sample ID: MB-73598	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73598		RunNo: 95220							
Prep Date: 3/9/2023	Analysis Date: 3/10/2023		SeqNo: 3444065		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		105	69	147			

Sample ID: MB-73599	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73599		RunNo: 95220							
Prep Date: 3/9/2023	Analysis Date: 3/10/2023		SeqNo: 3444066		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		84.2	69	147			

Sample ID: MB-73626	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73626		RunNo: 95220							
Prep Date: 3/9/2023	Analysis Date: 3/10/2023		SeqNo: 3444069		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			

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#: 2303491

17-Mar-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 4

Sample ID: lcs-73620	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 73620		RunNo: 95181							
Prep Date: 3/9/2023	Analysis Date: 3/11/2023		SeqNo: 3443463		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	98.8	70	130			
Surr: BFB	2000		1000		202	37.7	212			

Sample ID: mb-73620	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 73620		RunNo: 95181							
Prep Date: 3/9/2023	Analysis Date: 3/11/2023		SeqNo: 3443464		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	37.7	212			

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#: 2303491
17-Mar-23

Client: Vertex Resources Services, Inc.
Project: SDE 31 Federal 4

Sample ID: LCS-73620	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 73620	RunNo: 95181								
Prep Date: 3/9/2023	Analysis Date: 3/11/2023	SeqNo: 3443465 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	1.000	0	80.1	80	120			
Toluene	0.83	0.050	1.000	0	82.8	80	120			
Ethylbenzene	0.81	0.050	1.000	0	81.5	80	120			
Xylenes, Total	2.5	0.10	3.000	0	82.4	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.4	70	130			

Sample ID: mb-73620	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 73620	RunNo: 95181								
Prep Date: 3/9/2023	Analysis Date: 3/11/2023	SeqNo: 3443466 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	0.89		1.000		88.9	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



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: 2303491

RcptNo: 1

Received By: Tracy Casarrubias 3/9/2023 7:43:00 AM

Completed By: Tracy Casarrubias 3/9/2023 8:18:09 AM

Reviewed By: *JS 3-9-23*

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: *JS 3/9/23*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Vertex (Deron)

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 5 Day

Project Name:

SDE 31 Federal 4

Project #:

21E-02816-34

Project Manager:

Kent Stallings

Sampler: Zach Englebert

On Ice: ☐ Yes ☒ No

of Coolers: 1

Cooler Temp (including CF): 4.9-8.4-1°C

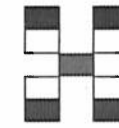
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3-7-23	9:30	Soil	BH23-01 0'	1 jar: 4 oz.	Ice	001
	9:45		BH23-01 2'			002
	10:00		BH23-02 0'			003
	10:15		BH23-02 2'			004
	10:30		BH23-03 0'			005
	10:45		BH23-05 2'			006
	11:00		BH23-04 0'			007
	11:15		BH23-04 2'			008
	11:30		BH23-05 0'			009
	11:45		BH23-05 2'			010
	1:00		BH23-06 0'			011
	1:15		BH23-06 2'			012

Date: 3-7-23 Time: 1600 Relinquished by: Zach Englebert

Received by: Via: Date: 3/6/23 Time: 845

Date: 3/6/23 Time: 1900 Relinquished by:

Received by: Via: Date: 3/9/23 Time: 7:43



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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: Direct Bill to Deron
Deron / Harvard

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 noted on the analytical report.



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

March 17, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: SDE 31 Federal 4

OrderNo.: 2303583

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/10/2023 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 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 2303583

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-07 0'

Project: SDE 31 Federal 4

Collection Date: 3/8/2023 9:30:00 AM

Lab ID: 2303583-001

Matrix: SOIL

Received Date: 3/10/2023 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)	1300	97		mg/Kg	10	3/14/2023 1:40:32 PM
Motor Oil Range Organics (MRO)	1500	480		mg/Kg	10	3/14/2023 1:40:32 PM
Surr: DNOP	0	69-147	S	%Rec	10	3/14/2023 1:40:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/14/2023 4:51:18 PM
Surr: BFB	104	37.7-212		%Rec	1	3/14/2023 4:51:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/14/2023 4:51:18 PM
Toluene	ND	0.046		mg/Kg	1	3/14/2023 4:51:18 PM
Ethylbenzene	ND	0.046		mg/Kg	1	3/14/2023 4:51:18 PM
Xylenes, Total	ND	0.093		mg/Kg	1	3/14/2023 4:51:18 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/14/2023 4:51:18 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	120	60		mg/Kg	20	3/14/2023 6:49:19 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 2303583

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-07 2'

Project: SDE 31 Federal 4

Collection Date: 3/8/2023 9:45:00 AM

Lab ID: 2303583-002

Matrix: SOIL

Received Date: 3/10/2023 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)	100	9.9		mg/Kg	1	3/14/2023 4:54:54 PM
Motor Oil Range Organics (MRO)	120	49		mg/Kg	1	3/14/2023 4:54:54 PM
Surr: DNOP	108	69-147		%Rec	1	3/14/2023 4:54:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/14/2023 5:38:21 PM
Surr: BFB	105	37.7-212		%Rec	1	3/14/2023 5:38:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/14/2023 5:38:21 PM
Toluene	ND	0.046		mg/Kg	1	3/14/2023 5:38:21 PM
Ethylbenzene	ND	0.046		mg/Kg	1	3/14/2023 5:38:21 PM
Xylenes, Total	ND	0.092		mg/Kg	1	3/14/2023 5:38:21 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/14/2023 5:38:21 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	71	60		mg/Kg	20	3/14/2023 7:01:40 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 2303583

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 4'

Project: SDE 31 Federal 4

Collection Date: 3/8/2023 10:00:00 AM

Lab ID: 2303583-003

Matrix: SOIL

Received Date: 3/10/2023 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	3/14/2023 5:43:29 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/14/2023 5:43:29 PM
Surr: DNOP	95.4	69-147		%Rec	1	3/14/2023 5:43:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/14/2023 6:01:57 PM
Surr: BFB	103	37.7-212		%Rec	1	3/14/2023 6:01:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/14/2023 6:01:57 PM
Toluene	ND	0.048		mg/Kg	1	3/14/2023 6:01:57 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/14/2023 6:01:57 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/14/2023 6:01:57 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/14/2023 6:01:57 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1000	60		mg/Kg	20	3/14/2023 7:14:01 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.		

Analytical Report

Lab Order 2303583

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-05 4'

Project: SDE 31 Federal 4

Collection Date: 3/8/2023 10:15:00 AM

Lab ID: 2303583-004

Matrix: SOIL

Received Date: 3/10/2023 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	9.9		mg/Kg	1	3/14/2023 6:07:52 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/14/2023 6:07:52 PM
Surr: DNOP	88.9	69-147		%Rec	1	3/14/2023 6:07:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/14/2023 6:25:27 PM
Surr: BFB	104	37.7-212		%Rec	1	3/14/2023 6:25:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/14/2023 6:25:27 PM
Toluene	ND	0.047		mg/Kg	1	3/14/2023 6:25:27 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/14/2023 6:25:27 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/14/2023 6:25:27 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/14/2023 6:25:27 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	3500	150		mg/Kg	50	3/15/2023 11:56:59 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 2303583

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-05 5'

Project: SDE 31 Federal 4

Collection Date: 3/8/2023 10:30:00 AM

Lab ID: 2303583-005

Matrix: SOIL

Received Date: 3/10/2023 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)	150	10		mg/Kg	1	3/14/2023 6:56:35 PM
Motor Oil Range Organics (MRO)	120	50		mg/Kg	1	3/14/2023 6:56:35 PM
Surr: DNOP	118	69-147		%Rec	1	3/14/2023 6:56:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/14/2023 6:49:02 PM
Surr: BFB	104	37.7-212		%Rec	1	3/14/2023 6:49:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/14/2023 6:49:02 PM
Toluene	ND	0.049		mg/Kg	1	3/14/2023 6:49:02 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/14/2023 6:49:02 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/14/2023 6:49:02 PM
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	3/14/2023 6:49:02 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	3300	150		mg/Kg	50	3/15/2023 12:09:20 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 2303583

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-06 4'

Project: SDE 31 Federal 4

Collection Date: 3/8/2023 10:45:00 AM

Lab ID: 2303583-006

Matrix: SOIL

Received Date: 3/10/2023 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	9.3		mg/Kg	1	3/14/2023 7:45:16 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/14/2023 7:45:16 PM
Surr: DNOP	126	69-147		%Rec	1	3/14/2023 7:45:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/14/2023 7:12:32 PM
Surr: BFB	103	37.7-212		%Rec	1	3/14/2023 7:12:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/14/2023 7:12:32 PM
Toluene	ND	0.047		mg/Kg	1	3/14/2023 7:12:32 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/14/2023 7:12:32 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/14/2023 7:12:32 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/14/2023 7:12:32 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	110	60		mg/Kg	20	3/14/2023 8:40:28 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	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 2303583

Date Reported: 3/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 5'

Project: SDE 31 Federal 4

Collection Date: 3/8/2023 11:00:00 AM

Lab ID: 2303583-007

Matrix: SOIL

Received Date: 3/10/2023 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	3/14/2023 8:09:43 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/14/2023 8:09:43 PM
Surr: DNOP	99.5	69-147		%Rec	1	3/14/2023 8:09:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/14/2023 7:36:05 PM
Surr: BFB	104	37.7-212		%Rec	1	3/14/2023 7:36:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/14/2023 7:36:05 PM
Toluene	ND	0.046		mg/Kg	1	3/14/2023 7:36:05 PM
Ethylbenzene	ND	0.046		mg/Kg	1	3/14/2023 7:36:05 PM
Xylenes, Total	ND	0.092		mg/Kg	1	3/14/2023 7:36:05 PM
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	3/14/2023 7:36:05 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	810	60		mg/Kg	20	3/14/2023 8:52:49 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.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303583

17-Mar-23

Client: Vertex Resources Services, Inc.
Project: SDE 31 Federal 4

Sample ID: MB-73698		SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID: PBS		Batch ID: 73698			RunNo: 95280					
Prep Date: 3/14/2023		Analysis Date: 3/14/2023			SeqNo: 3446161		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73698		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID: LCSS		Batch ID: 73698			RunNo: 95280					
Prep Date: 3/14/2023		Analysis Date: 3/14/2023			SeqNo: 3446162		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	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#: 2303583

17-Mar-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 4

Sample ID: MB-73676	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73676		RunNo: 95253							
Prep Date: 3/13/2023	Analysis Date: 3/14/2023		SeqNo: 3445056		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		121	69	147			

Sample ID: LCS-73676	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73676		RunNo: 95253							
Prep Date: 3/13/2023	Analysis Date: 3/14/2023		SeqNo: 3445072		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	92.5	61.9	130			
Surr: DNOP	5.0		5.000		99.1	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#: 2303583

17-Mar-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 4

Sample ID: lcs-73671	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 73671		RunNo: 95254							
Prep Date: 3/13/2023	Analysis Date: 3/14/2023		SeqNo: 3445081		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	101	70	130			
Surr: BFB	2100		1000		208	37.7	212			

Sample ID: mb-73671	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 73671		RunNo: 95254							
Prep Date: 3/13/2023	Analysis Date: 3/14/2023		SeqNo: 3445082		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		110	37.7	212			

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#: 2303583

17-Mar-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 4

Sample ID: LCS-73671	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 73671		RunNo: 95254							
Prep Date: 3/13/2023	Analysis Date: 3/14/2023		SeqNo: 3445087		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	94.0	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: mb-73671	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 73671		RunNo: 95254							
Prep Date: 3/13/2023	Analysis Date: 3/14/2023		SeqNo: 3445088		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		105	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



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: 2303583

RcptNo: 1

Received By: Tracy Casarrubias 3/10/2023 7:30:00 AM

Completed By: Tracy Casarrubias 3/10/2023 7:44:19 AM

Reviewed By: KDA 3-10-23

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 $>0^{\circ}\text{C}$ 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: JN 3/10/23

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: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good	Yes	Yogi		



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

July 17, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: SDE 31 Federal 004

OrderNo.: 2307350

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 7/11/2023 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 2307350

Date Reported: 7/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-08 0'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 8:15:00 AM

Lab ID: 2307350-001

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	700	9.5		mg/Kg	1	7/11/2023 6:10:46 PM
Motor Oil Range Organics (MRO)	630	47		mg/Kg	1	7/11/2023 6:10:46 PM
Surr: DNOP	92.1	69-147		%Rec	1	7/11/2023 6:10:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2023 11:01:00 AM
Surr: BFB	99.2	15-244		%Rec	1	7/12/2023 11:01:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/12/2023 11:01:00 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2023 11:01:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2023 11:01:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2023 11:01:00 AM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	7/12/2023 11:01:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	820	60		mg/Kg	20	7/12/2023 11:20:02 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 2307350

Date Reported: 7/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-08 2'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 8:30:00 AM

Lab ID: 2307350-002

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	440	9.9		mg/Kg	1	7/11/2023 8:15:30 PM
Motor Oil Range Organics (MRO)	330	49		mg/Kg	1	7/11/2023 8:15:30 PM
Surr: DNOP	82.7	69-147		%Rec	1	7/11/2023 8:15:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2023 12:07:00 PM
Surr: BFB	100	15-244		%Rec	1	7/12/2023 12:07:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/12/2023 12:07:00 PM
Toluene	ND	0.050		mg/Kg	1	7/12/2023 12:07:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2023 12:07:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2023 12:07:00 PM
Surr: 4-Bromofluorobenzene	98.5	39.1-146		%Rec	1	7/12/2023 12:07:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	1200	60		mg/Kg	20	7/12/2023 12:22:05 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 2307350

Date Reported: 7/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-08 4'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 8:40:00 AM

Lab ID: 2307350-003

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 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	7/11/2023 8:56:49 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/11/2023 8:56:49 PM
Surr: DNOP	93.0	69-147		%Rec	1	7/11/2023 8:56:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2023 1:12:00 PM
Surr: BFB	101	15-244		%Rec	1	7/12/2023 1:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/12/2023 1:12:00 PM
Toluene	ND	0.050		mg/Kg	1	7/12/2023 1:12:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2023 1:12:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/12/2023 1:12:00 PM
Surr: 4-Bromofluorobenzene	98.3	39.1-146		%Rec	1	7/12/2023 1:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1900	150		mg/Kg	50	7/13/2023 10:31:32 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 2307350

Date Reported: 7/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09 0'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 9:05:00 AM

Lab ID: 2307350-004

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	220	9.9		mg/Kg	1	7/11/2023 9:07:40 PM
Motor Oil Range Organics (MRO)	220	50		mg/Kg	1	7/11/2023 9:07:40 PM
Surr: DNOP	87.3	69-147		%Rec	1	7/11/2023 9:07:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2023 1:34:00 PM
Surr: BFB	101	15-244		%Rec	1	7/12/2023 1:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/12/2023 1:34:00 PM
Toluene	ND	0.049		mg/Kg	1	7/12/2023 1:34:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2023 1:34:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/12/2023 1:34:00 PM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	7/12/2023 1:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	1700	59		mg/Kg	20	7/12/2023 1:11:43 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 2307350

Date Reported: 7/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09 2'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 9:20:00 AM

Lab ID: 2307350-005

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/11/2023 9:48:58 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/11/2023 9:48:58 PM
Surr: DNOP	93.4	69-147		%Rec	1	7/11/2023 9:48:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2023 1:56:00 PM
Surr: BFB	100	15-244		%Rec	1	7/12/2023 1:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/12/2023 1:56:00 PM
Toluene	ND	0.049		mg/Kg	1	7/12/2023 1:56:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2023 1:56:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2023 1:56:00 PM
Surr: 4-Bromofluorobenzene	97.5	39.1-146		%Rec	1	7/12/2023 1:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	600	60		mg/Kg	20	7/12/2023 1:24:07 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 2307350

Date Reported: 7/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09 4'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 9:30:00 AM

Lab ID: 2307350-006

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 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	7/11/2023 10:10:51 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/11/2023 10:10:51 PM
Surr: DNOP	90.6	69-147		%Rec	1	7/11/2023 10:10:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2023 2:18:00 PM
Surr: BFB	98.8	15-244		%Rec	1	7/12/2023 2:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/12/2023 2:18:00 PM
Toluene	ND	0.050		mg/Kg	1	7/12/2023 2:18:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2023 2:18:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2023 2:18:00 PM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	7/12/2023 2:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	130	60		mg/Kg	20	7/12/2023 1:36:31 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 2307350

Date Reported: 7/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-10 0'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 9:50:00 AM

Lab ID: 2307350-007

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	21000	380		mg/Kg	40	7/12/2023 12:28:07 PM
Motor Oil Range Organics (MRO)	7400	1900		mg/Kg	40	7/12/2023 12:28:07 PM
Surr: DNOP	0	69-147	S	%Rec	40	7/12/2023 12:28:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	15	4.9		mg/Kg	1	7/12/2023 2:40:00 PM
Surr: BFB	139	15-244		%Rec	1	7/12/2023 2:40:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/12/2023 2:40:00 PM
Toluene	ND	0.049		mg/Kg	1	7/12/2023 2:40:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2023 2:40:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2023 2:40:00 PM
Surr: 4-Bromofluorobenzene	118	39.1-146		%Rec	1	7/12/2023 2:40:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	180	60		mg/Kg	20	7/12/2023 1:48:56 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.		

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Analytical Report

Lab Order 2307350

Date Reported: 7/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-10 2'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 10:00:00 AM

Lab ID: 2307350-008

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	990	46		mg/Kg	5	7/14/2023 9:02:02 AM
Motor Oil Range Organics (MRO)	560	230		mg/Kg	5	7/14/2023 9:02:02 AM
Surr: DNOP	70.1	69-147		%Rec	5	7/14/2023 9:02:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	7/12/2023 3:02:00 PM
Surr: BFB	133	15-244		%Rec	5	7/12/2023 3:02:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.12		mg/Kg	5	7/12/2023 3:02:00 PM
Toluene	ND	0.24		mg/Kg	5	7/12/2023 3:02:00 PM
Ethylbenzene	ND	0.24		mg/Kg	5	7/12/2023 3:02:00 PM
Xylenes, Total	ND	0.48		mg/Kg	5	7/12/2023 3:02:00 PM
Surr: 4-Bromofluorobenzene	108	39.1-146		%Rec	5	7/12/2023 3:02:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/12/2023 2:01:21 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 2307350

Date Reported: 7/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-10 4'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 10:10:00 AM

Lab ID: 2307350-009

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 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	7/11/2023 11:45:38 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/11/2023 11:45:38 PM
Surr: DNOP	91.8	69-147		%Rec	1	7/11/2023 11:45:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2023 3:24:00 PM
Surr: BFB	101	15-244		%Rec	1	7/12/2023 3:24:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/12/2023 3:24:00 PM
Toluene	ND	0.049		mg/Kg	1	7/12/2023 3:24:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2023 3:24:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2023 3:24:00 PM
Surr: 4-Bromofluorobenzene	98.5	39.1-146		%Rec	1	7/12/2023 3:24:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	66	60		mg/Kg	20	7/12/2023 2:13:46 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 2307350

Date Reported: 7/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-11 0'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 10:35:00 AM

Lab ID: 2307350-010

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	9400	98		mg/Kg	10	7/12/2023 10:38:06 AM
Motor Oil Range Organics (MRO)	3000	490		mg/Kg	10	7/12/2023 10:38:06 AM
Surr: DNOP	0	69-147	S	%Rec	10	7/12/2023 10:38:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/12/2023 3:46:00 PM
Surr: BFB	104	15-244		%Rec	1	7/12/2023 3:46:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/12/2023 3:46:00 PM
Toluene	ND	0.048		mg/Kg	1	7/12/2023 3:46:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/12/2023 3:46:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/12/2023 3:46:00 PM
Surr: 4-Bromofluorobenzene	99.2	39.1-146		%Rec	1	7/12/2023 3:46:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	75	60		mg/Kg	20	7/12/2023 2:50:59 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.		

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Analytical Report

Lab Order 2307350

Date Reported: 7/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-11 2'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 10:55:00 AM

Lab ID: 2307350-011

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 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	7/12/2023 12:38:18 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/12/2023 12:38:18 AM
Surr: DNOP	90.7	69-147		%Rec	1	7/12/2023 12:38:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2023 4:30:00 PM
Surr: BFB	96.4	15-244		%Rec	1	7/12/2023 4:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/12/2023 4:30:00 PM
Toluene	ND	0.049		mg/Kg	1	7/12/2023 4:30:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2023 4:30:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2023 4:30:00 PM
Surr: 4-Bromofluorobenzene	96.9	39.1-146		%Rec	1	7/12/2023 4:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	59		mg/Kg	20	7/12/2023 3:03:24 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.		

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Analytical Report

Lab Order 2307350

Date Reported: 7/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-11 4'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 11:05:00 AM

Lab ID: 2307350-012

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 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	7/12/2023 12:49:12 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/12/2023 12:49:12 AM
Surr: DNOP	90.6	69-147		%Rec	1	7/12/2023 12:49:12 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2023 4:51:00 PM
Surr: BFB	101	15-244		%Rec	1	7/12/2023 4:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/12/2023 4:51:00 PM
Toluene	ND	0.050		mg/Kg	1	7/12/2023 4:51:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2023 4:51:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2023 4:51:00 PM
Surr: 4-Bromofluorobenzene	97.0	39.1-146		%Rec	1	7/12/2023 4:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/12/2023 3:15:49 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#: 2307350

17-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: MB-76141	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 76141	RunNo: 98155								
Prep Date: 7/12/2023	Analysis Date: 7/12/2023	SeqNo: 3571682	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76141	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 76141	RunNo: 98155								
Prep Date: 7/12/2023	Analysis Date: 7/12/2023	SeqNo: 3571683	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			

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#: 2307350

17-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: 2307350-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH23-08 0'	Batch ID: 76122	RunNo: 98123								
Prep Date: 7/11/2023	Analysis Date: 7/11/2023	SeqNo: 3570531 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	760	9.5	47.53	704.3	114	54.2	135			
Surr: DNOP	3.8		4.753		80.0	69	147			

Sample ID: 2307350-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH23-08 0'	Batch ID: 76122	RunNo: 98123								
Prep Date: 7/11/2023	Analysis Date: 7/11/2023	SeqNo: 3570532 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	810	10	50.00	704.3	215	54.2	135	6.76	29.2	S
Surr: DNOP	4.2		5.000		84.0	69	147	0	0	

Sample ID: LCS-76085	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 76085	RunNo: 98123								
Prep Date: 7/10/2023	Analysis Date: 7/11/2023	SeqNo: 3570553 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.8		5.000		116	69	147			

Sample ID: LCS-76122	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 76122	RunNo: 98123								
Prep Date: 7/11/2023	Analysis Date: 7/11/2023	SeqNo: 3570554 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	87.7	61.9	130			
Surr: DNOP	3.9		5.000		78.9	69	147			

Sample ID: MB-76085	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 76085	RunNo: 98123								
Prep Date: 7/10/2023	Analysis Date: 7/11/2023	SeqNo: 3570556 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		120	69	147			

Sample ID: MB-76122	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 76122	RunNo: 98123								
Prep Date: 7/11/2023	Analysis Date: 7/11/2023	SeqNo: 3570557 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								

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P 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#: 2307350

17-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: MB-76122	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 76122			RunNo: 98123						
Prep Date: 7/11/2023	Analysis Date: 7/11/2023			SeqNo: 3570557	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		92.1	69	147			

Sample ID: LCS-76160	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 76160			RunNo: 98169						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572216	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		110	69	147			

Sample ID: LCS-76166	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 76166			RunNo: 98169						
Prep Date: 7/13/2023	Analysis Date: 7/13/2023			SeqNo: 3572217	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.4	69	147			

Sample ID: MB-76160	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 76160			RunNo: 98169						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572219	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		107	69	147			

Sample ID: MB-76166	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 76166			RunNo: 98169						
Prep Date: 7/13/2023	Analysis Date: 7/13/2023			SeqNo: 3572220	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		91.7	69	147			

Sample ID: LCS-76168	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 76168			RunNo: 98169						
Prep Date: 7/13/2023	Analysis Date: 7/13/2023			SeqNo: 3572752	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.0	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#: 2307350

17-Jul-23

Client: Vertex Resources Services, Inc.

Project: SDE 31 Federal 004

Sample ID: MB-76168	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 76168	RunNo: 98169								
Prep Date: 7/13/2023	Analysis Date: 7/13/2023	SeqNo: 3572754		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8		10.00		87.9	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#: 2307350

17-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: ics-76111	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 76111			RunNo: 98150						
Prep Date: 7/11/2023	Analysis Date: 7/12/2023			SeqNo: 3571221		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	90.2	70	130			
Surr: BFB	2100		1000		207	15	244			

Sample ID: mb-76111	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 76111			RunNo: 98150						
Prep Date: 7/11/2023	Analysis Date: 7/12/2023			SeqNo: 3571222		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	970		1000		97.1	15	244			

Sample ID: 2307350-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-08 0'	Batch ID: 76111			RunNo: 98150						
Prep Date: 7/11/2023	Analysis Date: 7/12/2023			SeqNo: 3571224		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.75	0	94.4	70	130			
Surr: BFB	2200		990.1		220	15	244			

Sample ID: 2307350-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-08 0'	Batch ID: 76111			RunNo: 98150						
Prep Date: 7/11/2023	Analysis Date: 7/12/2023			SeqNo: 3571225		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	24.80	0	88.2	70	130	6.59	20	
Surr: BFB	2200		992.1		217	15	244	0	0	

Sample ID: ics-76082	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 76082			RunNo: 98150						
Prep Date: 7/10/2023	Analysis Date: 7/12/2023			SeqNo: 3571245		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: mb-76082	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 76082			RunNo: 98150						
Prep Date: 7/10/2023	Analysis Date: 7/12/2023			SeqNo: 3571246		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.4	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#: 2307350

17-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: lcs-76111	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 76111		RunNo: 98150							
Prep Date: 7/11/2023	Analysis Date: 7/12/2023		SeqNo: 3571291		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	94.0	70	130			
Ethylbenzene	0.94	0.050	1.000	0	94.2	70	130			
Xylenes, Total	2.8	0.10	3.000	0	94.1	70	130			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.7	39.1	146			

Sample ID: mb-76111	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 76111		RunNo: 98150							
Prep Date: 7/11/2023	Analysis Date: 7/12/2023		SeqNo: 3571292		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		96.2	39.1	146			

Sample ID: 2307350-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-08 2'	Batch ID: 76111		RunNo: 98150							
Prep Date: 7/11/2023	Analysis Date: 7/12/2023		SeqNo: 3571295		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9921	0	104	70	130			
Toluene	1.0	0.050	0.9921	0	105	70	130			
Ethylbenzene	1.1	0.050	0.9921	0	107	70	130			
Xylenes, Total	3.2	0.099	2.976	0	107	70	130			
Surr: 4-Bromofluorobenzene	0.97		0.9921		98.0	39.1	146			

Sample ID: 2307350-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-08 2'	Batch ID: 76111		RunNo: 98150							
Prep Date: 7/11/2023	Analysis Date: 7/12/2023		SeqNo: 3571296		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9862	0	100	70	130	4.41	20	
Toluene	1.0	0.049	0.9862	0	102	70	130	3.87	20	
Ethylbenzene	1.0	0.049	0.9862	0	102	70	130	5.14	20	
Xylenes, Total	3.0	0.099	2.959	0	102	70	130	5.10	20	
Surr: 4-Bromofluorobenzene	0.98		0.9862		99.2	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



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: 2307350

RcptNo: 1

Received By: Cheyenne Cason 7/11/2023 9:10:00 AM

Completed By: Cheyenne Cason 7/11/2023 9:43:29 AM

Reviewed By: TMC 7/11/23

Chad

Chad

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 07/11/23*

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	0.0	Good	Not Present	Yogi		
2	3.3	Good	Not Present	Yogi		



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

July 18, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: SDE 31 Federal 004

OrderNo.: 2307361

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/11/2023 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 2307361

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09' 6'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 9:40:00 AM

Lab ID: 2307361-001

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 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	7/13/2023 4:01:21 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2023 4:01:21 AM
Surr: DNOP	82.6	69-147		%Rec	1	7/13/2023 4:01:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2023 4:18:00 PM
Surr: BFB	100	15-244		%Rec	1	7/13/2023 4:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/13/2023 4:18:00 PM
Toluene	ND	0.050		mg/Kg	1	7/13/2023 4:18:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2023 4:18:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2023 4:18:00 PM
Surr: 4-Bromofluorobenzene	99.1	39.1-146		%Rec	1	7/13/2023 4:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	120	60		mg/Kg	20	7/12/2023 6:41:44 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.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2307361

18-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: MB-76147	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 76147		RunNo: 98158							
Prep Date: 7/12/2023	Analysis Date: 7/12/2023		SeqNo: 3571790		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76147	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 76147		RunNo: 98158							
Prep Date: 7/12/2023	Analysis Date: 7/12/2023		SeqNo: 3571791		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.5	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#: 2307361

18-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: LCS-76138	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 76138			RunNo: 98153						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3571522		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	87.1	61.9	130			
Surr: DNOP	3.9		5.000		77.7	69	147			

Sample ID: MB-76138	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 76138			RunNo: 98153						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3571525		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		80.4	69	147			

Sample ID: LCS-76160	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 76160			RunNo: 98169						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572216		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		110	69	147			

Sample ID: MB-76160	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 76160			RunNo: 98169						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572219		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		107	69	147			

Sample ID: LCS-76168	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 76168			RunNo: 98169						
Prep Date: 7/13/2023	Analysis Date: 7/13/2023			SeqNo: 3572752		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.0	69	147			

Sample ID: MB-76168	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 76168			RunNo: 98169						
Prep Date: 7/13/2023	Analysis Date: 7/13/2023			SeqNo: 3572754		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8		10.00		87.9	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#: 2307361

18-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: lcs-76130	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 76130			RunNo: 98150						
Prep Date: 7/11/2023	Analysis Date: 7/13/2023			SeqNo: 3571263		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	87.9	70	130			
Surr: BFB	2100		1000		210	15	244			

Sample ID: mb-76130	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 76130			RunNo: 98150						
Prep Date: 7/11/2023	Analysis Date: 7/13/2023			SeqNo: 3571264		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		94.5	15	244			

Sample ID: lcs-76155	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 76155			RunNo: 98174						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572761		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		216	15	244			

Sample ID: mb-76155	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 76155			RunNo: 98174						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572762		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		99.3	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#: 2307361

18-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: ics-76130	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 76130			RunNo: 98150						
Prep Date: 7/11/2023	Analysis Date: 7/13/2023			SeqNo: 3571315			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	94.6	70	130			
Toluene	0.95	0.050	1.000	0	95.1	70	130			
Ethylbenzene	0.95	0.050	1.000	0	95.2	70	130			
Xylenes, Total	2.9	0.10	3.000	0	95.0	70	130			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	39.1	146			

Sample ID: mb-76130	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 76130			RunNo: 98150						
Prep Date: 7/11/2023	Analysis Date: 7/13/2023			SeqNo: 3571316			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		94.8	39.1	146			

Sample ID: ics-76155	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 76155			RunNo: 98174						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572787			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.4	39.1	146			

Sample ID: mb-76155	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 76155			RunNo: 98174						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572788			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	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: 2307361

RcptNo: 1

Received By: Cheyenne Cason

7/11/2023 9:10:00 AM

Handwritten signature

Completed By: Cheyenne Cason

7/11/2023 10:14:37 AM

Handwritten signature

Reviewed By: *ms 7/11/23*

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: *SLM 07/11/23*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.0	Good	Not Present	Yogi		
2	3.3	Good	Not Present	Yogi		

Chain-of-Custody Record

Turn-Around Time:

☐ Standard ☒ Rush 48-hour

Project Name:

SDE 31 Federal 004

Project #:

22E-02816-34

Project Manager:

Kent Stallings

kstallings@vertex.ca

Sampler: L. Pullman

On Ice: ☒ Yes ☐ No Yes# of Coolers: 2 0.1-0.1=0.0Cooler Temp (including CF): 3.4-0.1=3.3Container
Type and #Preservative
Type

HEAL No.

2307361

Client: Vertex

(direct bill to Devon-Harvard Divest, see Remarks)

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other _____☐ EDD (Type) _____

Date	Time	Matrix	Sample Name
07/09/23	09:40	Soil	BH23-09 6'

1, 4oz jar

001

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

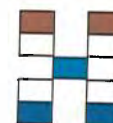
Cl, F, Br, NO₃, NO₂, PO₄, SO₄

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

Remarks: Direct bill to Devon, Dale Woodall
Harvard Divest Site - SDE 31 Federal 004
GL Account 7700100
CC 1007884901
cc. kstallings@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.



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

July 18, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: SDE 31 Federal 004

OrderNo.: 2307362

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/11/2023 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 2307362

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-11 6'

Project: SDE 31 Federal 004

Collection Date: 7/9/2023 11:10:00 AM

Lab ID: 2307362-001

Matrix: SOIL

Received Date: 7/11/2023 9:10:00 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	7/13/2023 4:12:29 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2023 4:12:29 AM
Surr: DNOP	88.8	69-147		%Rec	1	7/13/2023 4:12:29 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2023 4:40:00 PM
Surr: BFB	99.6	15-244		%Rec	1	7/13/2023 4:40:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/13/2023 4:40:00 PM
Toluene	ND	0.050		mg/Kg	1	7/13/2023 4:40:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2023 4:40:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/13/2023 4:40:00 PM
Surr: 4-Bromofluorobenzene	98.6	39.1-146		%Rec	1	7/13/2023 4:40:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	7/12/2023 6:54:09 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.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2307362
18-Jul-23

Client: Vertex Resources Services, Inc.
Project: SDE 31 Federal 004

Sample ID: MB-76147		SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID: PBS		Batch ID: 76147			RunNo: 98158					
Prep Date: 7/12/2023		Analysis Date: 7/12/2023			SeqNo: 3571790		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76147		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID: LCSS		Batch ID: 76147			RunNo: 98158					
Prep Date: 7/12/2023		Analysis Date: 7/12/2023			SeqNo: 3571791		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.5	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 2 of 5

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

WO#: 2307362

18-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: LCS-76138	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 76138			RunNo: 98153						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3571522		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	87.1	61.9	130			
Surr: DNOP	3.9		5.000		77.7	69	147			

Sample ID: MB-76138	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 76138			RunNo: 98153						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3571525		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		80.4	69	147			

Sample ID: LCS-76160	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 76160			RunNo: 98169						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572216		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		110	69	147			

Sample ID: MB-76160	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 76160			RunNo: 98169						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572219		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		107	69	147			

Sample ID: LCS-76168	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 76168			RunNo: 98169						
Prep Date: 7/13/2023	Analysis Date: 7/13/2023			SeqNo: 3572752		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.0	69	147			

Sample ID: MB-76168	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 76168			RunNo: 98169						
Prep Date: 7/13/2023	Analysis Date: 7/13/2023			SeqNo: 3572754		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8		10.00		87.9	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#: 2307362
18-Jul-23

Client: Vertex Resources Services, Inc.
Project: SDE 31 Federal 004

Sample ID: lcs-76130	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 76130	RunNo: 98150								
Prep Date: 7/11/2023	Analysis Date: 7/13/2023	SeqNo: 3571263 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	87.9	70	130			
Surr: BFB	2100		1000		210	15	244			

Sample ID: mb-76130	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 76130	RunNo: 98150								
Prep Date: 7/11/2023	Analysis Date: 7/13/2023	SeqNo: 3571264 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		94.5	15	244			

Sample ID: lcs-76155	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 76155	RunNo: 98174								
Prep Date: 7/12/2023	Analysis Date: 7/13/2023	SeqNo: 3572761 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		216	15	244			

Sample ID: mb-76155	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 76155	RunNo: 98174								
Prep Date: 7/12/2023	Analysis Date: 7/13/2023	SeqNo: 3572762 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		99.3	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

Page 4 of 5

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

WO#: 2307362

18-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: ics-76130	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 76130			RunNo: 98150						
Prep Date: 7/11/2023	Analysis Date: 7/13/2023			SeqNo: 3571315		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	94.6	70	130			
Toluene	0.95	0.050	1.000	0	95.1	70	130			
Ethylbenzene	0.95	0.050	1.000	0	95.2	70	130			
Xylenes, Total	2.9	0.10	3.000	0	95.0	70	130			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	39.1	146			

Sample ID: mb-76130	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 76130			RunNo: 98150						
Prep Date: 7/11/2023	Analysis Date: 7/13/2023			SeqNo: 3571316		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		94.8	39.1	146			

Sample ID: ics-76155	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 76155			RunNo: 98174						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572787		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.4	39.1	146			

Sample ID: mb-76155	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 76155			RunNo: 98174						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572788		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	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: 2307362

RcptNo: 1

Received By: Cheyenne Cason

7/11/2023 9:10:00 AM

Completed By: Cheyenne Cason

7/11/2023 10:26:29 AM

Reviewed By:

MC 7/11/23

Chad

Chad

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 07/11/23*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.0	Good	Not Present	Yogi		
2	3.3	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

Received by: QCD: 7/17/2026 6:48:32 AM Chain-of-Custody Record				Turn-Around Time:		
Client: Vertex				☐ Standard ☒ Rush <u>48-hour</u>		
(direct bill to Devon-Harvard Divest, see Remarks)				Project Name:		
Mailing Address:				SDE 31 Federal 004		
				Project #:		
Phone #:				22E-02816-34		
email or Fax#:				Project Manager:		
QA/QC Package:				Kent Stallings		
☐ Standard ☐ Level 4 (Full Validation)				kstallings@vertex.ca		
Accreditation: ☐ Az Compliance				Sampler: L. Pullman		
☐ NELAC ☐ Other _____				On Ice: ☒ Yes ☐ No <u>Yog:</u>		
☐ EDD (Type) _____				# of Coolers: <u>2 0.1 - 0.1 = 0.0</u>		
				Cooler Temp (including CF): <u>3.4 - 0.1 = 3.3</u>		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
07/09/23	11:10	Soil	BH23-11 6'	1, 4oz jar		<u>2307362</u> <u>001</u>
Date:	Time:	Relinquished by:		Received by:	Via:	Date Time
7-10-23	07:00	<u>[Signature]</u>		<u>[Signature]</u>		7/10/23 7:00
Date:	Time:	Relinquished by:		Received by:	Via:	Date Time
7/16/23	1900	<u>[Signature]</u>		<u>CME</u>		7/16/23 0910

Remarks: Direct bill to Devon, Dale Woodall
Harvard Divest Site – SDE 31 Federal 004
GL Account 7700100
CC 1007884901
cc. kstallings@vertex.ca for Final Report

7

Released to Imaging: 7/20/2026 1:17:26 PM



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

July 18, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: SDE 31 Federal 004

OrderNo.: 2307446

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 57 sample(s) on 7/12/2023 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 7:40:00 AM

Lab ID: 2307446-001

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	14000	200		mg/Kg	20	7/13/2023 1:12:24 PM
Motor Oil Range Organics (MRO)	7100	980		mg/Kg	20	7/13/2023 1:12:24 PM
Surr: DNOP	0	69-147	S	%Rec	20	7/13/2023 1:12:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	93	4.8		mg/Kg	1	7/13/2023 3:19:38 PM
Surr: BFB	569	15-244	S	%Rec	1	7/13/2023 3:19:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/13/2023 3:19:38 PM
Toluene	ND	0.048		mg/Kg	1	7/13/2023 3:19:38 PM
Ethylbenzene	0.052	0.048		mg/Kg	1	7/13/2023 3:19:38 PM
Xylenes, Total	0.65	0.097		mg/Kg	1	7/13/2023 3:19:38 PM
Surr: 4-Bromofluorobenzene	99.6	39.1-146		%Rec	1	7/13/2023 3:19:38 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	810	60		mg/Kg	20	7/13/2023 3:32:05 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.		

Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 7:50:00 AM

Lab ID: 2307446-002

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	6800	200		mg/Kg	20	7/13/2023 1:53:48 PM
Motor Oil Range Organics (MRO)	2500	980		mg/Kg	20	7/13/2023 1:53:48 PM
Surr: DNOP	0	69-147	S	%Rec	20	7/13/2023 1:53:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	11	4.8		mg/Kg	1	7/14/2023 1:38:33 AM
Surr: BFB	195	15-244		%Rec	1	7/14/2023 1:38:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/14/2023 1:38:33 AM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 1:38:33 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 1:38:33 AM
Xylenes, Total	ND	0.096		mg/Kg	1	7/14/2023 1:38:33 AM
Surr: 4-Bromofluorobenzene	80.9	39.1-146		%Rec	1	7/14/2023 1:38:33 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	750	61		mg/Kg	20	7/13/2023 3:44:30 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 4'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 7:55:00 AM

Lab ID: 2307446-003

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 2:35:17 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/13/2023 2:35:17 PM
Surr: DNOP	104	69-147		%Rec	1	7/13/2023 2:35:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2023 4:07:30 PM
Surr: BFB	108	15-244		%Rec	1	7/13/2023 4:07:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	7/13/2023 4:07:30 PM
Toluene	ND	0.049		mg/Kg	1	7/13/2023 4:07:30 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2023 4:07:30 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2023 4:07:30 PM
Surr: 4-Bromofluorobenzene	86.1	39.1-146		%Rec	1	7/13/2023 4:07:30 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	920	60		mg/Kg	20	7/13/2023 3:56:55 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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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-13 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 8:05:00 AM

Lab ID: 2307446-004

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 5:27:19 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/13/2023 5:27:19 PM
Surr: DNOP	83.2	69-147		%Rec	1	7/13/2023 5:27:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2023 4:31:29 PM
Surr: BFB	102	15-244		%Rec	1	7/13/2023 4:31:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/13/2023 4:31:29 PM
Toluene	ND	0.049		mg/Kg	1	7/13/2023 4:31:29 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2023 4:31:29 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/13/2023 4:31:29 PM
Surr: 4-Bromofluorobenzene	82.5	39.1-146		%Rec	1	7/13/2023 4:31:29 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	100	60		mg/Kg	20	7/13/2023 4:09:19 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-13 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 8:15:00 AM

Lab ID: 2307446-005

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/13/2023 5:38:21 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2023 5:38:21 PM
Surr: DNOP	105	69-147		%Rec	1	7/13/2023 5:38:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2023 4:55:27 PM
Surr: BFB	101	15-244		%Rec	1	7/13/2023 4:55:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	7/13/2023 4:55:27 PM
Toluene	ND	0.049		mg/Kg	1	7/13/2023 4:55:27 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2023 4:55:27 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2023 4:55:27 PM
Surr: 4-Bromofluorobenzene	81.2	39.1-146		%Rec	1	7/13/2023 4:55:27 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/13/2023 4:21:44 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-13 4'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 8:25:00 AM

Lab ID: 2307446-006

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 5:49:27 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/13/2023 5:49:27 PM
Surr: DNOP	117	69-147		%Rec	1	7/13/2023 5:49:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/13/2023 5:19:25 PM
Surr: BFB	100	15-244		%Rec	1	7/13/2023 5:19:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/13/2023 5:19:25 PM
Toluene	ND	0.048		mg/Kg	1	7/13/2023 5:19:25 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/13/2023 5:19:25 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/13/2023 5:19:25 PM
Surr: 4-Bromofluorobenzene	80.2	39.1-146		%Rec	1	7/13/2023 5:19:25 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/13/2023 4:34:08 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-14 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 8:35:00 AM

Lab ID: 2307446-007

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	620	9.7		mg/Kg	1	7/14/2023 11:38:35 AM
Motor Oil Range Organics (MRO)	480	49		mg/Kg	1	7/14/2023 11:38:35 AM
Surr: DNOP	92.5	69-147		%Rec	1	7/14/2023 11:38:35 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/13/2023 6:07:20 PM
Surr: BFB	100	15-244		%Rec	1	7/13/2023 6:07:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/13/2023 6:07:20 PM
Toluene	ND	0.048		mg/Kg	1	7/13/2023 6:07:20 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/13/2023 6:07:20 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/13/2023 6:07:20 PM
Surr: 4-Bromofluorobenzene	80.5	39.1-146		%Rec	1	7/13/2023 6:07:20 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	18000	600		mg/Kg	200	7/14/2023 3:09:00 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.		

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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-14 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 8:45:00 AM

Lab ID: 2307446-008

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	1600	190		mg/Kg	20	7/13/2023 6:11:32 PM
Motor Oil Range Organics (MRO)	1700	950		mg/Kg	20	7/13/2023 6:11:32 PM
Surr: DNOP	0	69-147	S	%Rec	20	7/13/2023 6:11:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/13/2023 6:31:15 PM
Surr: BFB	100	15-244		%Rec	1	7/13/2023 6:31:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/13/2023 6:31:15 PM
Toluene	ND	0.048		mg/Kg	1	7/13/2023 6:31:15 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/13/2023 6:31:15 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/13/2023 6:31:15 PM
Surr: 4-Bromofluorobenzene	80.5	39.1-146		%Rec	1	7/13/2023 6:31:15 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	5800	300		mg/Kg	100	7/14/2023 2:44:10 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.		

Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-14 4'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 9:25:00 AM

Lab ID: 2307446-009

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	120	10		mg/Kg	1	7/14/2023 12:19:24 PM
Motor Oil Range Organics (MRO)	120	50		mg/Kg	1	7/14/2023 12:19:24 PM
Surr: DNOP	109	69-147		%Rec	1	7/14/2023 12:19:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2023 6:55:08 PM
Surr: BFB	101	15-244		%Rec	1	7/13/2023 6:55:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	7/13/2023 6:55:08 PM
Toluene	ND	0.050		mg/Kg	1	7/13/2023 6:55:08 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2023 6:55:08 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2023 6:55:08 PM
Surr: 4-Bromofluorobenzene	82.3	39.1-146		%Rec	1	7/13/2023 6:55:08 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	4900	150		mg/Kg	50	7/14/2023 2:06:57 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-15 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 9:35:00 AM

Lab ID: 2307446-010

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	55	9.5		mg/Kg	1	7/13/2023 7:04:11 PM
Motor Oil Range Organics (MRO)	78	48		mg/Kg	1	7/13/2023 7:04:11 PM
Surr: DNOP	118	69-147		%Rec	1	7/13/2023 7:04:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/13/2023 7:18:59 PM
Surr: BFB	97.9	15-244		%Rec	1	7/13/2023 7:18:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/13/2023 7:18:59 PM
Toluene	ND	0.048		mg/Kg	1	7/13/2023 7:18:59 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/13/2023 7:18:59 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/13/2023 7:18:59 PM
Surr: 4-Bromofluorobenzene	79.2	39.1-146		%Rec	1	7/13/2023 7:18:59 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	21000	1500		mg/Kg	500	7/14/2023 3:33:49 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.		

Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-15 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 9:50:00 AM

Lab ID: 2307446-011

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 7:15:09 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/13/2023 7:15:09 PM
Surr: DNOP	102	69-147		%Rec	1	7/13/2023 7:15:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/13/2023 7:42:52 PM
Surr: BFB	103	15-244		%Rec	1	7/13/2023 7:42:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/13/2023 7:42:52 PM
Toluene	ND	0.048		mg/Kg	1	7/13/2023 7:42:52 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/13/2023 7:42:52 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/13/2023 7:42:52 PM
Surr: 4-Bromofluorobenzene	82.4	39.1-146		%Rec	1	7/13/2023 7:42:52 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	420	60		mg/Kg	20	7/13/2023 2:55:26 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-15 3'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 10:05:00 AM

Lab ID: 2307446-012

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	11	9.5		mg/Kg	1	7/13/2023 7:26:04 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/13/2023 7:26:04 PM
Surr: DNOP	102	69-147		%Rec	1	7/13/2023 7:26:04 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2023 8:06:40 PM
Surr: BFB	100	15-244		%Rec	1	7/13/2023 8:06:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	7/13/2023 8:06:40 PM
Toluene	ND	0.050		mg/Kg	1	7/13/2023 8:06:40 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2023 8:06:40 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2023 8:06:40 PM
Surr: 4-Bromofluorobenzene	80.8	39.1-146		%Rec	1	7/13/2023 8:06:40 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1700	60		mg/Kg	20	7/13/2023 3:07:51 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-16 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 9:30:00 AM

Lab ID: 2307446-013

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	170	10		mg/Kg	1	7/14/2023 12:30:02 PM
Motor Oil Range Organics (MRO)	150	50		mg/Kg	1	7/14/2023 12:30:02 PM
Surr: DNOP	114	69-147		%Rec	1	7/14/2023 12:30:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2023 8:30:28 PM
Surr: BFB	97.8	15-244		%Rec	1	7/13/2023 8:30:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/13/2023 8:30:28 PM
Toluene	ND	0.049		mg/Kg	1	7/13/2023 8:30:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2023 8:30:28 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/13/2023 8:30:28 PM
Surr: 4-Bromofluorobenzene	78.2	39.1-146		%Rec	1	7/13/2023 8:30:28 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	9900	590		mg/Kg	200	7/14/2023 3:21:25 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.		

Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-16 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 9:35:00 AM

Lab ID: 2307446-014

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 7:47:58 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2023 7:47:58 PM
Surr: DNOP	103	69-147		%Rec	1	7/13/2023 7:47:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2023 8:54:21 PM
Surr: BFB	99.3	15-244		%Rec	1	7/13/2023 8:54:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	7/13/2023 8:54:21 PM
Toluene	ND	0.050		mg/Kg	1	7/13/2023 8:54:21 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2023 8:54:21 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2023 8:54:21 PM
Surr: 4-Bromofluorobenzene	79.8	39.1-146		%Rec	1	7/13/2023 8:54:21 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	520	60		mg/Kg	20	7/13/2023 3:57:30 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-16 4'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 9:40:00 AM

Lab ID: 2307446-015

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 8:09:36 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/13/2023 8:09:36 PM
Surr: DNOP	109	69-147		%Rec	1	7/13/2023 8:09:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2023 9:18:09 PM
Surr: BFB	98.6	15-244		%Rec	1	7/13/2023 9:18:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	7/13/2023 9:18:09 PM
Toluene	ND	0.050		mg/Kg	1	7/13/2023 9:18:09 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2023 9:18:09 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2023 9:18:09 PM
Surr: 4-Bromofluorobenzene	79.6	39.1-146		%Rec	1	7/13/2023 9:18:09 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2300	60		mg/Kg	20	7/13/2023 4:09:54 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-17 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 9:45:00 AM

Lab ID: 2307446-016

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/13/2023 8:20:30 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2023 8:20:30 PM
Surr: DNOP	86.2	69-147		%Rec	1	7/13/2023 8:20:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/13/2023 9:41:55 PM
Surr: BFB	99.0	15-244		%Rec	1	7/13/2023 9:41:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/13/2023 9:41:55 PM
Toluene	ND	0.048		mg/Kg	1	7/13/2023 9:41:55 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/13/2023 9:41:55 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/13/2023 9:41:55 PM
Surr: 4-Bromofluorobenzene	80.8	39.1-146		%Rec	1	7/13/2023 9:41:55 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2300	60		mg/Kg	20	7/13/2023 4:22:19 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-17 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 9:50:00 AM

Lab ID: 2307446-017

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 8:31:21 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2023 8:31:21 PM
Surr: DNOP	87.2	69-147		%Rec	1	7/13/2023 8:31:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/13/2023 10:53:05 PM
Surr: BFB	98.0	15-244		%Rec	1	7/13/2023 10:53:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/13/2023 10:53:05 PM
Toluene	ND	0.048		mg/Kg	1	7/13/2023 10:53:05 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/13/2023 10:53:05 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/13/2023 10:53:05 PM
Surr: 4-Bromofluorobenzene	80.5	39.1-146		%Rec	1	7/13/2023 10:53:05 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	2100	150		mg/Kg	50	7/14/2023 2:19:21 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-18 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 10:25:00 AM

Lab ID: 2307446-018

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	720	20		mg/Kg	2	7/14/2023 12:51:21 PM
Motor Oil Range Organics (MRO)	370	98		mg/Kg	2	7/14/2023 12:51:21 PM
Surr: DNOP	114	69-147		%Rec	2	7/14/2023 12:51:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/13/2023 11:16:45 PM
Surr: BFB	94.1	15-244		%Rec	1	7/13/2023 11:16:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/13/2023 11:16:45 PM
Toluene	ND	0.048		mg/Kg	1	7/13/2023 11:16:45 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/13/2023 11:16:45 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/13/2023 11:16:45 PM
Surr: 4-Bromofluorobenzene	76.2	39.1-146		%Rec	1	7/13/2023 11:16:45 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1700	60		mg/Kg	20	7/13/2023 4:47:08 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-18 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 10:30:00 AM

Lab ID: 2307446-019

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 8:53:03 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/13/2023 8:53:03 PM
Surr: DNOP	114	69-147		%Rec	1	7/13/2023 8:53:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2023 11:40:27 PM
Surr: BFB	100	15-244		%Rec	1	7/13/2023 11:40:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	7/13/2023 11:40:27 PM
Toluene	ND	0.050		mg/Kg	1	7/13/2023 11:40:27 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2023 11:40:27 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/13/2023 11:40:27 PM
Surr: 4-Bromofluorobenzene	78.9	39.1-146		%Rec	1	7/13/2023 11:40:27 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	170	60		mg/Kg	20	7/13/2023 4:59:33 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 10:00:00 AM

Lab ID: 2307446-020

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 9:03:55 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/13/2023 9:03:55 PM
Surr: DNOP	123	69-147		%Rec	1	7/13/2023 9:03:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2023 12:04:05 AM
Surr: BFB	95.9	15-244		%Rec	1	7/14/2023 12:04:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/14/2023 12:04:05 AM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 12:04:05 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 12:04:05 AM
Xylenes, Total	ND	0.096		mg/Kg	1	7/14/2023 12:04:05 AM
Surr: 4-Bromofluorobenzene	78.1	39.1-146		%Rec	1	7/14/2023 12:04:05 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	7/13/2023 5:11:57 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 10:05:00 AM

Lab ID: 2307446-021

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 9:36:11 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/13/2023 9:36:11 PM
Surr: DNOP	97.7	69-147		%Rec	1	7/13/2023 9:36:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2023 7:58:00 PM
Surr: BFB	96.8	15-244		%Rec	1	7/13/2023 7:58:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/13/2023 7:58:00 PM
Toluene	ND	0.050		mg/Kg	1	7/13/2023 7:58:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2023 7:58:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2023 7:58:00 PM
Surr: 4-Bromofluorobenzene	96.9	39.1-146		%Rec	1	7/13/2023 7:58:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	160	61		mg/Kg	20	7/13/2023 5:24:21 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.		

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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-20 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 10:45:00 AM

Lab ID: 2307446-022

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/14/2023 1:32:26 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/14/2023 1:32:26 PM
Surr: DNOP	94.0	69-147		%Rec	1	7/14/2023 1:32:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2023 9:04:00 PM
Surr: BFB	100	15-244		%Rec	1	7/13/2023 9:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/13/2023 9:04:00 PM
Toluene	ND	0.049		mg/Kg	1	7/13/2023 9:04:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2023 9:04:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2023 9:04:00 PM
Surr: 4-Bromofluorobenzene	96.8	39.1-146		%Rec	1	7/13/2023 9:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	160	61		mg/Kg	20	7/13/2023 5:36:46 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-20 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 10:50:00 AM

Lab ID: 2307446-023

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/13/2023 9:57:57 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/13/2023 9:57:57 PM
Surr: DNOP	95.2	69-147		%Rec	1	7/13/2023 9:57:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2023 10:31:00 PM
Surr: BFB	96.2	15-244		%Rec	1	7/13/2023 10:31:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/13/2023 10:31:00 PM
Toluene	ND	0.049		mg/Kg	1	7/13/2023 10:31:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2023 10:31:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2023 10:31:00 PM
Surr: 4-Bromofluorobenzene	94.9	39.1-146		%Rec	1	7/13/2023 10:31:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	410	60		mg/Kg	20	7/13/2023 6:14:00 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.		

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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-21 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 10:30:00 AM

Lab ID: 2307446-024

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 10:08:53 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/13/2023 10:08:53 PM
Surr: DNOP	107	69-147		%Rec	1	7/13/2023 10:08:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2023 10:53:00 PM
Surr: BFB	94.8	15-244		%Rec	1	7/13/2023 10:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/13/2023 10:53:00 PM
Toluene	ND	0.049		mg/Kg	1	7/13/2023 10:53:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2023 10:53:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2023 10:53:00 PM
Surr: 4-Bromofluorobenzene	94.4	39.1-146		%Rec	1	7/13/2023 10:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	220	60		mg/Kg	20	7/13/2023 6:26:24 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.		

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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-21 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 10:40:00 AM

Lab ID: 2307446-025

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 10:19:54 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/13/2023 10:19:54 PM
Surr: DNOP	95.5	69-147		%Rec	1	7/13/2023 10:19:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2023 11:15:00 PM
Surr: BFB	96.7	15-244		%Rec	1	7/13/2023 11:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/13/2023 11:15:00 PM
Toluene	ND	0.050		mg/Kg	1	7/13/2023 11:15:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2023 11:15:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/13/2023 11:15:00 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	7/13/2023 11:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	59		mg/Kg	20	7/13/2023 6:38:48 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-22 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 11:00:00 AM

Lab ID: 2307446-026

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 10:31:03 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/13/2023 10:31:03 PM
Surr: DNOP	96.6	69-147		%Rec	1	7/13/2023 10:31:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2023 11:37:00 PM
Surr: BFB	95.0	15-244		%Rec	1	7/13/2023 11:37:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/13/2023 11:37:00 PM
Toluene	ND	0.049		mg/Kg	1	7/13/2023 11:37:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2023 11:37:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2023 11:37:00 PM
Surr: 4-Bromofluorobenzene	96.1	39.1-146		%Rec	1	7/13/2023 11:37:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	640	61		mg/Kg	20	7/13/2023 6:51:13 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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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-22 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 11:10:00 AM

Lab ID: 2307446-027

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/13/2023 10:42:12 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2023 10:42:12 PM
Surr: DNOP	91.9	69-147		%Rec	1	7/13/2023 10:42:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2023 11:59:00 PM
Surr: BFB	96.6	15-244		%Rec	1	7/13/2023 11:59:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/13/2023 11:59:00 PM
Toluene	ND	0.050		mg/Kg	1	7/13/2023 11:59:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2023 11:59:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2023 11:59:00 PM
Surr: 4-Bromofluorobenzene	95.5	39.1-146		%Rec	1	7/13/2023 11:59:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	86	61		mg/Kg	20	7/13/2023 7:03:37 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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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-23 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 11:20:00 AM

Lab ID: 2307446-028

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/14/2023 1:43:11 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2023 1:43:11 PM
Surr: DNOP	97.7	69-147		%Rec	1	7/14/2023 1:43:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2023 12:21:00 AM
Surr: BFB	93.5	15-244		%Rec	1	7/14/2023 12:21:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 12:21:00 AM
Toluene	ND	0.049		mg/Kg	1	7/14/2023 12:21:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2023 12:21:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/14/2023 12:21:00 AM
Surr: 4-Bromofluorobenzene	94.7	39.1-146		%Rec	1	7/14/2023 12:21:00 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	8700	300		mg/Kg	100	7/14/2023 2:56:35 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-23 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 11:30:00 AM

Lab ID: 2307446-029

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 11:15:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/13/2023 11:15:16 PM
Surr: DNOP	90.7	69-147		%Rec	1	7/13/2023 11:15:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2023 12:42:00 AM
Surr: BFB	96.6	15-244		%Rec	1	7/14/2023 12:42:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 12:42:00 AM
Toluene	ND	0.050		mg/Kg	1	7/14/2023 12:42:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2023 12:42:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/14/2023 12:42:00 AM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	7/14/2023 12:42:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	280	60		mg/Kg	20	7/13/2023 9:44:20 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-24 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 11:15:00 AM

Lab ID: 2307446-030

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	160	9.7		mg/Kg	1	7/14/2023 1:53:54 PM
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	7/14/2023 1:53:54 PM
Surr: DNOP	115	69-147		%Rec	1	7/14/2023 1:53:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2023 1:04:00 AM
Surr: BFB	96.5	15-244		%Rec	1	7/14/2023 1:04:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 1:04:00 AM
Toluene	ND	0.049		mg/Kg	1	7/14/2023 1:04:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2023 1:04:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2023 1:04:00 AM
Surr: 4-Bromofluorobenzene	94.4	39.1-146		%Rec	1	7/14/2023 1:04:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	220	60		mg/Kg	20	7/13/2023 9:56:45 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-24 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 11:25:00 AM

Lab ID: 2307446-031

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 11:37:24 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/13/2023 11:37:24 PM
Surr: DNOP	96.1	69-147		%Rec	1	7/13/2023 11:37:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2023 1:48:00 AM
Surr: BFB	96.1	15-244		%Rec	1	7/14/2023 1:48:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 1:48:00 AM
Toluene	ND	0.049		mg/Kg	1	7/14/2023 1:48:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2023 1:48:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2023 1:48:00 AM
Surr: 4-Bromofluorobenzene	95.9	39.1-146		%Rec	1	7/14/2023 1:48:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	460	60		mg/Kg	20	7/13/2023 10:09:10 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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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-25 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 11:30:00 AM

Lab ID: 2307446-032

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 11:48:26 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2023 11:48:26 PM
Surr: DNOP	97.1	69-147		%Rec	1	7/13/2023 11:48:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2023 2:10:00 AM
Surr: BFB	95.7	15-244		%Rec	1	7/14/2023 2:10:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 2:10:00 AM
Toluene	ND	0.049		mg/Kg	1	7/14/2023 2:10:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2023 2:10:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2023 2:10:00 AM
Surr: 4-Bromofluorobenzene	94.3	39.1-146		%Rec	1	7/14/2023 2:10:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	440	60		mg/Kg	20	7/13/2023 10:21:35 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-25 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 11:40:00 AM

Lab ID: 2307446-033

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 11:59:28 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/13/2023 11:59:28 PM
Surr: DNOP	96.8	69-147		%Rec	1	7/13/2023 11:59:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2023 2:31:00 AM
Surr: BFB	93.7	15-244		%Rec	1	7/14/2023 2:31:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 2:31:00 AM
Toluene	ND	0.049		mg/Kg	1	7/14/2023 2:31:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2023 2:31:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2023 2:31:00 AM
Surr: 4-Bromofluorobenzene	94.4	39.1-146		%Rec	1	7/14/2023 2:31:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1000	61		mg/Kg	20	7/13/2023 10:58:49 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-26 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 11:40:00 AM

Lab ID: 2307446-034

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/14/2023 2:04:39 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/14/2023 2:04:39 PM
Surr: DNOP	95.8	69-147		%Rec	1	7/14/2023 2:04:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2023 2:53:00 AM
Surr: BFB	94.3	15-244		%Rec	1	7/14/2023 2:53:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 2:53:00 AM
Toluene	ND	0.050		mg/Kg	1	7/14/2023 2:53:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2023 2:53:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2023 2:53:00 AM
Surr: 4-Bromofluorobenzene	95.2	39.1-146		%Rec	1	7/14/2023 2:53:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	280	60		mg/Kg	20	7/13/2023 11:11:14 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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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-26 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 11:45:00 AM

Lab ID: 2307446-035

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/14/2023 12:21:20 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/14/2023 12:21:20 AM
Surr: DNOP	94.9	69-147		%Rec	1	7/14/2023 12:21:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2023 3:15:00 AM
Surr: BFB	91.5	15-244		%Rec	1	7/14/2023 3:15:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 3:15:00 AM
Toluene	ND	0.050		mg/Kg	1	7/14/2023 3:15:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2023 3:15:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2023 3:15:00 AM
Surr: 4-Bromofluorobenzene	93.7	39.1-146		%Rec	1	7/14/2023 3:15:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	190	60		mg/Kg	20	7/13/2023 11:23:38 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.		

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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-27 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 11:45:00 AM

Lab ID: 2307446-036

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/14/2023 2:15:24 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2023 2:15:24 PM
Surr: DNOP	93.7	69-147		%Rec	1	7/14/2023 2:15:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2023 3:37:00 AM
Surr: BFB	94.8	15-244		%Rec	1	7/14/2023 3:37:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 3:37:00 AM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 3:37:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 3:37:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2023 3:37:00 AM
Surr: 4-Bromofluorobenzene	95.6	39.1-146		%Rec	1	7/14/2023 3:37:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/13/2023 11:36:03 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-27 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 11:50:00 AM

Lab ID: 2307446-037

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/14/2023 12:43:11 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2023 12:43:11 AM
Surr: DNOP	91.9	69-147		%Rec	1	7/14/2023 12:43:11 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2023 3:58:00 AM
Surr: BFB	96.0	15-244		%Rec	1	7/14/2023 3:58:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 3:58:00 AM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 3:58:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 3:58:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2023 3:58:00 AM
Surr: 4-Bromofluorobenzene	95.2	39.1-146		%Rec	1	7/14/2023 3:58:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/13/2023 11:48:27 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-28 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 11:55:00 AM

Lab ID: 2307446-038

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/14/2023 12:54:00 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2023 12:54:00 AM
Surr: DNOP	92.7	69-147		%Rec	1	7/14/2023 12:54:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2023 4:20:00 AM
Surr: BFB	93.5	15-244		%Rec	1	7/14/2023 4:20:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 4:20:00 AM
Toluene	ND	0.049		mg/Kg	1	7/14/2023 4:20:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2023 4:20:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2023 4:20:00 AM
Surr: 4-Bromofluorobenzene	96.0	39.1-146		%Rec	1	7/14/2023 4:20:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	61		mg/Kg	20	7/14/2023 12:00:52 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-28 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 12:05:00 PM

Lab ID: 2307446-039

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/14/2023 1:04:49 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/14/2023 1:04:49 AM
Surr: DNOP	91.8	69-147		%Rec	1	7/14/2023 1:04:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2023 4:42:00 AM
Surr: BFB	94.8	15-244		%Rec	1	7/14/2023 4:42:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 4:42:00 AM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 4:42:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 4:42:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2023 4:42:00 AM
Surr: 4-Bromofluorobenzene	95.1	39.1-146		%Rec	1	7/14/2023 4:42:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/14/2023 12:13:17 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-29 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:00:00 PM

Lab ID: 2307446-040

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	68	9.1		mg/Kg	1	7/14/2023 1:15:36 AM
Motor Oil Range Organics (MRO)	50	46		mg/Kg	1	7/14/2023 1:15:36 AM
Surr: DNOP	93.8	69-147		%Rec	1	7/14/2023 1:15:36 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2023 5:04:00 AM
Surr: BFB	93.9	15-244		%Rec	1	7/14/2023 5:04:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 5:04:00 AM
Toluene	ND	0.050		mg/Kg	1	7/14/2023 5:04:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2023 5:04:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2023 5:04:00 AM
Surr: 4-Bromofluorobenzene	93.1	39.1-146		%Rec	1	7/14/2023 5:04:00 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	3100	150		mg/Kg	50	7/14/2023 2:31:45 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-29 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:10:00 PM

Lab ID: 2307446-041

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	53	9.9		mg/Kg	1	7/13/2023 7:30:31 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/13/2023 7:30:31 PM
Surr: DNOP	99.3	69-147		%Rec	1	7/13/2023 7:30:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2023 9:10:00 AM
Surr: BFB	94.1	15-244		%Rec	1	7/14/2023 9:10:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 9:10:00 AM
Toluene	ND	0.049		mg/Kg	1	7/14/2023 9:10:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2023 9:10:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/14/2023 9:10:00 AM
Surr: 4-Bromofluorobenzene	95.9	39.1-146		%Rec	1	7/14/2023 9:10:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	150	60		mg/Kg	20	7/14/2023 12:38:06 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.		

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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-30 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:10:00 PM

Lab ID: 2307446-042

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 7:54:31 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/13/2023 7:54:31 PM
Surr: DNOP	99.1	69-147		%Rec	1	7/13/2023 7:54:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2023 9:32:00 AM
Surr: BFB	99.5	15-244		%Rec	1	7/14/2023 9:32:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 9:32:00 AM
Toluene	ND	0.049		mg/Kg	1	7/14/2023 9:32:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2023 9:32:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2023 9:32:00 AM
Surr: 4-Bromofluorobenzene	97.1	39.1-146		%Rec	1	7/14/2023 9:32:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/14/2023 12:50:31 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.		

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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-30 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:20:00 PM

Lab ID: 2307446-043

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 8:42:35 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/13/2023 8:42:35 PM
Surr: DNOP	98.0	69-147		%Rec	1	7/13/2023 8:42:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2023 9:53:00 AM
Surr: BFB	99.1	15-244		%Rec	1	7/14/2023 9:53:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 9:53:00 AM
Toluene	ND	0.049		mg/Kg	1	7/14/2023 9:53:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2023 9:53:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2023 9:53:00 AM
Surr: 4-Bromofluorobenzene	99.1	39.1-146		%Rec	1	7/14/2023 9:53:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	86	60		mg/Kg	20	7/14/2023 1:52:33 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-31 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:25:00 PM

Lab ID: 2307446-044

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	67	9.9		mg/Kg	1	7/13/2023 9:54:35 PM
Motor Oil Range Organics (MRO)	82	49		mg/Kg	1	7/13/2023 9:54:35 PM
Surr: DNOP	99.2	69-147		%Rec	1	7/13/2023 9:54:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2023 10:15:00 AM
Surr: BFB	94.1	15-244		%Rec	1	7/14/2023 10:15:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 10:15:00 AM
Toluene	ND	0.049		mg/Kg	1	7/14/2023 10:15:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2023 10:15:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/14/2023 10:15:00 AM
Surr: 4-Bromofluorobenzene	96.9	39.1-146		%Rec	1	7/14/2023 10:15:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	96	60		mg/Kg	20	7/14/2023 2:04:58 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.		

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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-31 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:30:00 PM

Lab ID: 2307446-045

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 10:42:40 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2023 10:42:40 PM
Surr: DNOP	98.8	69-147		%Rec	1	7/13/2023 10:42:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/14/2023 10:37:00 AM
Surr: BFB	96.7	15-244		%Rec	1	7/14/2023 10:37:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	7/14/2023 10:37:00 AM
Toluene	ND	0.046		mg/Kg	1	7/14/2023 10:37:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	7/14/2023 10:37:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	7/14/2023 10:37:00 AM
Surr: 4-Bromofluorobenzene	96.6	39.1-146		%Rec	1	7/14/2023 10:37:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/14/2023 2:17:23 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.		

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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-32 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:30:00 PM

Lab ID: 2307446-046

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 11:06:45 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/13/2023 11:06:45 PM
Surr: DNOP	88.2	69-147		%Rec	1	7/13/2023 11:06:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2023 10:59:00 AM
Surr: BFB	100	15-244		%Rec	1	7/14/2023 10:59:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 10:59:00 AM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 10:59:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 10:59:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/14/2023 10:59:00 AM
Surr: 4-Bromofluorobenzene	96.0	39.1-146		%Rec	1	7/14/2023 10:59:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	74	60		mg/Kg	20	7/14/2023 2:29:47 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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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-32 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:35:00 PM

Lab ID: 2307446-047

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/13/2023 11:30:53 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/13/2023 11:30:53 PM
Surr: DNOP	97.9	69-147		%Rec	1	7/13/2023 11:30:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2023 11:20:00 AM
Surr: BFB	98.8	15-244		%Rec	1	7/14/2023 11:20:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 11:20:00 AM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 11:20:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 11:20:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/14/2023 11:20:00 AM
Surr: 4-Bromofluorobenzene	97.6	39.1-146		%Rec	1	7/14/2023 11:20:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/14/2023 2:42:12 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-33 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:40:00 PM

Lab ID: 2307446-048

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	780	95		mg/Kg	10	7/13/2023 11:55:02 PM
Motor Oil Range Organics (MRO)	650	470		mg/Kg	10	7/13/2023 11:55:02 PM
Surr: DNOP	0	69-147	S	%Rec	10	7/13/2023 11:55:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2023 11:42:00 AM
Surr: BFB	95.8	15-244		%Rec	1	7/14/2023 11:42:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 11:42:00 AM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 11:42:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 11:42:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	7/14/2023 11:42:00 AM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	7/14/2023 11:42:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	790	60		mg/Kg	20	7/14/2023 2:54:37 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.		

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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-33 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:45:00 PM

Lab ID: 2307446-049

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/14/2023 1:07:08 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2023 1:07:08 AM
Surr: DNOP	102	69-147		%Rec	1	7/14/2023 1:07:08 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2023 12:04:00 PM
Surr: BFB	98.0	15-244		%Rec	1	7/14/2023 12:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 12:04:00 PM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 12:04:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 12:04:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	7/14/2023 12:04:00 PM
Surr: 4-Bromofluorobenzene	98.3	39.1-146		%Rec	1	7/14/2023 12:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/14/2023 3:07:02 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-34 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:40:00 PM

Lab ID: 2307446-050

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	1400	96		mg/Kg	10	7/14/2023 1:31:08 AM
Motor Oil Range Organics (MRO)	960	480		mg/Kg	10	7/14/2023 1:31:08 AM
Surr: DNOP	0	69-147	S	%Rec	10	7/14/2023 1:31:08 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2023 12:26:00 PM
Surr: BFB	96.9	15-244		%Rec	1	7/14/2023 12:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 12:26:00 PM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 12:26:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 12:26:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2023 12:26:00 PM
Surr: 4-Bromofluorobenzene	97.6	39.1-146		%Rec	1	7/14/2023 12:26:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/14/2023 3:19:26 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-34 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:45:00 PM

Lab ID: 2307446-051

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/14/2023 1:55:08 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/14/2023 1:55:08 AM
Surr: DNOP	93.4	69-147		%Rec	1	7/14/2023 1:55:08 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/14/2023 1:09:00 PM
Surr: BFB	100	15-244		%Rec	1	7/14/2023 1:09:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	7/14/2023 1:09:00 PM
Toluene	ND	0.047		mg/Kg	1	7/14/2023 1:09:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/14/2023 1:09:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	7/14/2023 1:09:00 PM
Surr: 4-Bromofluorobenzene	99.6	39.1-146		%Rec	1	7/14/2023 1:09:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/14/2023 3:56:39 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.		

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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-35 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:50:00 PM

Lab ID: 2307446-052

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	3200	490		mg/Kg	50	7/14/2023 2:19:09 AM
Motor Oil Range Organics (MRO)	4000	2400		mg/Kg	50	7/14/2023 2:19:09 AM
Surr: DNOP	0	69-147	S	%Rec	50	7/14/2023 2:19:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/14/2023 1:31:00 PM
Surr: BFB	103	15-244		%Rec	1	7/14/2023 1:31:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	7/14/2023 1:31:00 PM
Toluene	ND	0.047		mg/Kg	1	7/14/2023 1:31:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/14/2023 1:31:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	7/14/2023 1:31:00 PM
Surr: 4-Bromofluorobenzene	98.4	39.1-146		%Rec	1	7/14/2023 1:31:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/14/2023 4:09:04 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.		

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Analytical Report

Lab Order 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-35 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:55:00 PM

Lab ID: 2307446-053

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/14/2023 3:07:13 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/14/2023 3:07:13 AM
Surr: DNOP	93.3	69-147		%Rec	1	7/14/2023 3:07:13 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2023 1:53:00 PM
Surr: BFB	102	15-244		%Rec	1	7/14/2023 1:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 1:53:00 PM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 1:53:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 1:53:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/14/2023 1:53:00 PM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	7/14/2023 1:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	200	60		mg/Kg	20	7/14/2023 4:21:29 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-36 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:50:00 PM

Lab ID: 2307446-054

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/14/2023 2:26:10 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/14/2023 2:26:10 PM
Surr: DNOP	102	69-147		%Rec	1	7/14/2023 2:26:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2023 2:15:00 PM
Surr: BFB	104	15-244		%Rec	1	7/14/2023 2:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 2:15:00 PM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 2:15:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 2:15:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/14/2023 2:15:00 PM
Surr: 4-Bromofluorobenzene	99.2	39.1-146		%Rec	1	7/14/2023 2:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/14/2023 4:33:53 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-36 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 1:55:00 PM

Lab ID: 2307446-055

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/14/2023 3:55:09 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2023 3:55:09 AM
Surr: DNOP	96.9	69-147		%Rec	1	7/14/2023 3:55:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2023 2:37:00 PM
Surr: BFB	103	15-244		%Rec	1	7/14/2023 2:37:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 2:37:00 PM
Toluene	ND	0.050		mg/Kg	1	7/14/2023 2:37:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2023 2:37:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/14/2023 2:37:00 PM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	7/14/2023 2:37:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/14/2023 4:46:18 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-37 0'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 2:00:00 PM

Lab ID: 2307446-056

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	23	9.3		mg/Kg	1	7/14/2023 4:19:04 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2023 4:19:04 AM
Surr: DNOP	93.4	69-147		%Rec	1	7/14/2023 4:19:04 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/14/2023 2:59:00 PM
Surr: BFB	102	15-244		%Rec	1	7/14/2023 2:59:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	7/14/2023 2:59:00 PM
Toluene	ND	0.046		mg/Kg	1	7/14/2023 2:59:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	7/14/2023 2:59:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	7/14/2023 2:59:00 PM
Surr: 4-Bromofluorobenzene	97.4	39.1-146		%Rec	1	7/14/2023 2:59:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	340	60		mg/Kg	20	7/14/2023 4:58:43 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 2307446

Date Reported: 7/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-37 2'

Project: SDE 31 Federal 004

Collection Date: 7/10/2023 2:15:00 PM

Lab ID: 2307446-057

Matrix: SOIL

Received Date: 7/12/2023 8:00:00 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	7/14/2023 5:30:30 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2023 5:30:30 AM
Surr: DNOP	94.4	69-147		%Rec	1	7/14/2023 5:30:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/14/2023 3:21:00 PM
Surr: BFB	100	15-244		%Rec	1	7/14/2023 3:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 3:21:00 PM
Toluene	ND	0.047		mg/Kg	1	7/14/2023 3:21:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/14/2023 3:21:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	7/14/2023 3:21:00 PM
Surr: 4-Bromofluorobenzene	99.4	39.1-146		%Rec	1	7/14/2023 3:21:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/14/2023 5:11:08 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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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2307446

18-Jul-23

Client: Vertex Resources Services, Inc.

Project: SDE 31 Federal 004

Sample ID: MB-76176	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 76176		RunNo: 98195							
Prep Date: 7/13/2023	Analysis Date: 7/13/2023		SeqNo: 3573236		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76176	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 76176		RunNo: 98195							
Prep Date: 7/13/2023	Analysis Date: 7/13/2023		SeqNo: 3573237		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			

Sample ID: MB-76191	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 76191		RunNo: 98195							
Prep Date: 7/13/2023	Analysis Date: 7/13/2023		SeqNo: 3573270		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76191	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 76191		RunNo: 98195							
Prep Date: 7/13/2023	Analysis Date: 7/13/2023		SeqNo: 3573272		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			

Sample ID: 2307335-001AMS	SampType: ms		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: 76191		RunNo: 98195							
Prep Date: 7/13/2023	Analysis Date: 7/13/2023		SeqNo: 3573292		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	32	7.5	15.00	19.20	87.1	47.4	150			

Sample ID: 2307335-001AMSD	SampType: msd		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: 76191		RunNo: 98195							
Prep Date: 7/13/2023	Analysis Date: 7/13/2023		SeqNo: 3573293		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	32	7.5	15.00	19.20	83.6	44.8	154	1.66	20	

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#: 2307446

18-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: MB-76202	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 76202		RunNo: 98195							
Prep Date: 7/13/2023	Analysis Date: 7/14/2023		SeqNo: 3573322		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76202	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 76202		RunNo: 98195							
Prep Date: 7/13/2023	Analysis Date: 7/14/2023		SeqNo: 3573323		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.9	90	110			

Sample ID: MB-76182	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 76182		RunNo: 98181							
Prep Date: 7/13/2023	Analysis Date: 7/13/2023		SeqNo: 3573428		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76182	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 76182		RunNo: 98181							
Prep Date: 7/13/2023	Analysis Date: 7/13/2023		SeqNo: 3573429		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.2	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#: 2307446

18-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: LCS-76160	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 76160			RunNo: 98169						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572216			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	5.5		5.000		110	69	147			

Sample ID: MB-76160	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 76160			RunNo: 98169						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572219			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		107	69	147			

Sample ID: 2307446-040AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH23-29 0'	Batch ID: 76168			RunNo: 98169						
Prep Date: 7/13/2023	Analysis Date: 7/14/2023			SeqNo: 3572748			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	140	9.5	47.62	67.86	146	54.2	135			S
Surr: DNOP	5.7		4.762		120	69	147			

Sample ID: 2307446-040AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH23-29 0'	Batch ID: 76168			RunNo: 98169						
Prep Date: 7/13/2023	Analysis Date: 7/14/2023			SeqNo: 3572749			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	72	9.6	48.12	67.86	9.55	54.2	135	61.8	29.2	RS
Surr: DNOP	4.9		4.812		101	69	147	0	0	

Sample ID: LCS-76168	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 76168			RunNo: 98169						
Prep Date: 7/13/2023	Analysis Date: 7/13/2023			SeqNo: 3572752			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	82.5	61.9	130			
Surr: DNOP	4.3		5.000		85.0	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#: 2307446

18-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: MB-76168	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 76168	RunNo: 98169								
Prep Date: 7/13/2023	Analysis Date: 7/13/2023	SeqNo: 3572754 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	8.8		10.00		87.9	69	147			

Sample ID: 2307446-020AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH23-19 0'	Batch ID: 76160	RunNo: 98169								
Prep Date: 7/12/2023	Analysis Date: 7/14/2023	SeqNo: 3572927 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.6	48.22	0	111	54.2	135			
Surr: DNOP	5.3		4.822		110	69	147			

Sample ID: 2307446-020AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH23-19 0'	Batch ID: 76160	RunNo: 98169								
Prep Date: 7/12/2023	Analysis Date: 7/14/2023	SeqNo: 3572928 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.4	46.99	0	96.7	54.2	135	16.6	29.2	
Surr: DNOP	4.3		4.699		92.5	69	147	0	0	

Sample ID: MB-76187	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 76187	RunNo: 98192								
Prep Date: 7/13/2023	Analysis Date: 7/13/2023	SeqNo: 3573197 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	9.4		10.00		93.6	69	147			

Sample ID: LCS-76187	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 76187	RunNo: 98192								
Prep Date: 7/13/2023	Analysis Date: 7/13/2023	SeqNo: 3573198 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	85.7	61.9	130			
Surr: DNOP	4.2		5.000		83.1	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#: 2307446
18-Jul-23

Client: Vertex Resources Services, Inc.
Project: SDE 31 Federal 004

Sample ID: 2307446-043AMS		SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: BH23-30 2'		Batch ID: 76187			RunNo: 98192					
Prep Date: 7/13/2023		Analysis Date: 7/13/2023			SeqNo: 3573202		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.9	49.31	0	92.2	54.2	135			
Surr: DNOP	4.4		4.931		90.0	69	147			

Sample ID: 2307446-043AMSD		SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: BH23-30 2'		Batch ID: 76187			RunNo: 98192					
Prep Date: 7/13/2023		Analysis Date: 7/13/2023			SeqNo: 3573203		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	49.95	0	86.9	54.2	135	4.64	29.2	
Surr: DNOP	4.4		4.995		87.5	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#: 2307446

18-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: lcs-76148	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 76148			RunNo: 98173						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572253			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	88.7	70	130			
Surr: BFB	2000		1000		204	15	244			

Sample ID: mb-76148	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 76148			RunNo: 98173						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572254			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		98.7	15	244			

Sample ID: lcs-76155	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 76155			RunNo: 98174						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572761			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	88.0	70	130			
Surr: BFB	2200		1000		216	15	244			

Sample ID: mb-76155	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 76155			RunNo: 98174						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572762			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		99.3	15	244			

Sample ID: 2307446-022ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-20 0'	Batch ID: 76155			RunNo: 98174						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572765			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.9	24.39	0	83.7	70	130			
Surr: BFB	2100		975.6		213	15	244			

Sample ID: 2307446-022amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-20 0'	Batch ID: 76155			RunNo: 98174						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572766			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#: 2307446

18-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: 2307446-022amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH23-20 0'	Batch ID: 76155	RunNo: 98174								
Prep Date: 7/12/2023	Analysis Date: 7/13/2023	SeqNo: 3572766 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	85.6	70	130	2.76	20	
Surr: BFB	2200		980.4		227	15	244	0	0	

Sample ID: 2307446-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH23-12 0'	Batch ID: 76148	RunNo: 98173								
Prep Date: 7/12/2023	Analysis Date: 7/14/2023	SeqNo: 3572860 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	87	4.8	24.04	93.42	-27.5	70	130			S
Surr: BFB	5100		961.5		534	15	244			S

Sample ID: 2307446-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH23-12 0'	Batch ID: 76148	RunNo: 98173								
Prep Date: 7/12/2023	Analysis Date: 7/14/2023	SeqNo: 3572861 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	100	4.8	23.99	93.42	35.7	70	130	16.1	20	S
Surr: BFB	5600		959.7		585	15	244	0	0	S

Sample ID: lcs-76167	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 76167	RunNo: 98207								
Prep Date: 7/13/2023	Analysis Date: 7/14/2023	SeqNo: 3573748 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	92.2	70	130			
Surr: BFB	2100		1000		209	15	244			

Sample ID: mb-76167	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 76167	RunNo: 98207								
Prep Date: 7/13/2023	Analysis Date: 7/14/2023	SeqNo: 3573749 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		99.6	15	244			

Sample ID: 2307446-041ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH23-29 2'	Batch ID: 76167	RunNo: 98207								
Prep Date: 7/13/2023	Analysis Date: 7/14/2023	SeqNo: 3574134 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#: 2307446
18-Jul-23

Client: Vertex Resources Services, Inc.
Project: SDE 31 Federal 004

Sample ID: 2307446-041ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: BH23-29 2'	Batch ID: 76167	RunNo: 98207
Prep Date: 7/13/2023	Analysis Date: 7/14/2023	SeqNo: 3574134 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	26	4.9 24.70 0 106 70 130
Surr: BFB	2300	988.1 237 15 244

Sample ID: 2307446-041amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range
Client ID: BH23-29 2'	Batch ID: 76167	RunNo: 98207
Prep Date: 7/13/2023	Analysis Date: 7/14/2023	SeqNo: 3574135 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	26	4.9 24.73 0 104 70 130 1.58 20
Surr: BFB	2300	989.1 229 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#: 2307446

18-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: LCS-76148	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 76148			RunNo: 98173						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572257			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.025	1.000	0	79.0	70	130			
Toluene	0.79	0.050	1.000	0	79.0	70	130			
Ethylbenzene	0.81	0.050	1.000	0	81.2	70	130			
Xylenes, Total	2.4	0.10	3.000	0	81.5	70	130			
Surr: 4-Bromofluorobenzene	0.81		1.000		80.8	39.1	146			

Sample ID: mb-76148	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 76148			RunNo: 98173						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572258			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	0.82		1.000		81.7	39.1	146			

Sample ID: lcs-76155	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 76155			RunNo: 98174						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572787			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	93.5	70	130			
Toluene	0.94	0.050	1.000	0	94.0	70	130			
Ethylbenzene	0.96	0.050	1.000	0	95.5	70	130			
Xylenes, Total	2.9	0.10	3.000	0	95.2	70	130			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.4	39.1	146			

Sample ID: mb-76155	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 76155			RunNo: 98174						
Prep Date: 7/12/2023	Analysis Date: 7/13/2023			SeqNo: 3572788			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		98.2	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#: 2307446

18-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal 004

Sample ID: 2307446-021amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH23-19 2'	Batch ID: 76155	RunNo: 98174								
Prep Date: 7/12/2023	Analysis Date: 7/13/2023	SeqNo: 3572791 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9891	0	100	70	130	36.1	20	R
Toluene	1.0	0.049	0.9891	0	102	70	130	37.4	20	R
Ethylbenzene	1.0	0.049	0.9891	0	105	70	130	40.8	20	R
Xylenes, Total	3.1	0.099	2.967	0	104	70	130	40.9	20	R
Surr: 4-Bromofluorobenzene	0.97		0.9891		98.5	39.1	146	0	0	

Sample ID: 2307446-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH23-12 2'	Batch ID: 76148	RunNo: 98173								
Prep Date: 7/12/2023	Analysis Date: 7/14/2023	SeqNo: 3572887 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.73	0.024	0.9653	0	75.3	70	130			
Toluene	0.76	0.048	0.9653	0.02144	76.3	70	130			
Ethylbenzene	0.76	0.048	0.9653	0.01933	76.3	70	130			
Xylenes, Total	2.2	0.097	2.896	0.1503	71.1	70	130			
Surr: 4-Bromofluorobenzene	0.79		0.9653		82.0	39.1	146			

Sample ID: 2307446-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH23-12 2'	Batch ID: 76148	RunNo: 98173								
Prep Date: 7/12/2023	Analysis Date: 7/14/2023	SeqNo: 3572888 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.024	0.9681	0	77.8	70	130	3.58	20	
Toluene	0.78	0.048	0.9681	0.02144	77.8	70	130	2.28	20	
Ethylbenzene	0.77	0.048	0.9681	0.01933	77.9	70	130	2.36	20	
Xylenes, Total	2.3	0.097	2.904	0.1503	73.1	70	130	2.92	20	
Surr: 4-Bromofluorobenzene	0.78		0.9681		80.1	39.1	146	0	0	

Sample ID: lcs-76167	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 76167	RunNo: 98207								
Prep Date: 7/13/2023	Analysis Date: 7/14/2023	SeqNo: 3573760 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	94.4	70	130			
Ethylbenzene	0.96	0.050	1.000	0	95.6	70	130			
Xylenes, Total	2.9	0.10	3.000	0	95.2	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.9	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#: 2307446
18-Jul-23

Client: Vertex Resources Services, Inc.
Project: SDE 31 Federal 004

Sample ID: mb-76167	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 76167	RunNo: 98207								
Prep Date: 7/13/2023	Analysis Date: 7/14/2023	SeqNo: 3573761	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		96.0	39.1	146			

Sample ID: 2307446-042ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH23-30 0'	Batch ID: 76167	RunNo: 98207								
Prep Date: 7/13/2023	Analysis Date: 7/14/2023	SeqNo: 3574169	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9699	0	89.1	70	130			
Toluene	0.88	0.048	0.9699	0	90.3	70	130			
Ethylbenzene	0.90	0.048	0.9699	0	92.3	70	130			
Xylenes, Total	2.7	0.097	2.910	0	91.6	70	130			
Surr: 4-Bromofluorobenzene	0.98		0.9699		101	39.1	146			

Sample ID: 2307446-042amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH23-30 0'	Batch ID: 76167	RunNo: 98207								
Prep Date: 7/13/2023	Analysis Date: 7/14/2023	SeqNo: 3574204	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9671	0	97.8	70	130	9.05	20	
Toluene	0.96	0.048	0.9671	0	99.8	70	130	9.69	20	
Ethylbenzene	0.99	0.048	0.9671	0	102	70	130	9.98	20	
Xylenes, Total	3.0	0.097	2.901	0	102	70	130	10.8	20	
Surr: 4-Bromofluorobenzene	0.99		0.9671		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

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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: 2307446

RcptNo: 1

Received By: Tracy Casarrubias 7/12/2023 8:00:00 AM

Completed By: Tracy Casarrubias 7/12/2023 9:03:05 AM

Reviewed By:

Handwritten signatures and date 7/12/23

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: *ju 7/12/23*

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 7/12/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.4	Good	Yes	Yogi		

HEAL No.
7307441



7/12/23

1/5

Released to Imaging: 7/20/2026 1:17:26 PM

HEAL No.[illegible]

7/12/23

2/5

Released to Imaging: 7/20/2026 1:17:26 PM

Analysis Request

Remarks: Direct bill to Devon, Dale Woodall
Harvard Divest Site – SDE 31 Federal 004
GL Account 7700100
CC 1007884901
cc. kstallings@vertex.ca for Final Report

3/5

Type and #4/5

Released to Imaging: 7/20/2026 1:17:26 PM

Chain of Custody Record

Client: **Vertex**

(direct bill to Devon-Harvard Divest, see Remarks)

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 48-hour

Project Name:

SDE 31 Federal 004

Project #:

22E-02816-34

Project Manager:

Kent Stallings

kstallings@vertex.ca

Sampler: L. Pullman

On Ice: ☐ Yes ☐ No

of Coolers:

Cooler Temp (including CF): See Checklist

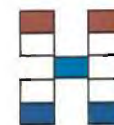
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
07/10/23	13:45	Soil	BH23-33 2'	1, 4oz jar		049
07/10/23	13:40	Soil	BH23-34 0'	1, 4oz jar		050
07/10/23	13:45	Soil	BH23-34 2'	1, 4oz jar		051
07/10/23	13:50	Soil	BH23-35 0'	1, 4oz jar		052
07/10/23	13:55	Soil	BH23-35 2'	1, 4oz jar		053
07/10/23	13:50	Soil	BH23-36 0'	1, 4oz jar		054
07/10/23	13:55	Soil	BH23-36 2'	1, 4oz jar		055
07/10/23	14:00	Soil	BH23-37 0'	1, 4oz jar		056
07/10/23	14:15	Soil	BH23-37 2'	1, 4oz jar		057

Date: 7-11-23 Time: 07:00 Relinquished by: L. Pullman

Date: 7/11/23 Time: 1900 Relinquished by: acuminis

Received by: acuminis Via: cc Date: 7/11/23 Time: 7:00

Received by: cc Via: cc Date: 7/12/23 Time: 8:00



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: Direct bill to Devon, Dale Woodall
 Harvard Divest Site – SDE 31 Federal 004
 GL Account 7700100
 CC 1007884901
 cc. kstallings@vertex.ca for Final Report

S/S

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

July 24, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: SDE 31 Federal CTB

OrderNo.: 2307525

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 26 sample(s) on 7/13/2023 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-38 0'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 9:25:00 AM

Lab ID: 2307525-001

Matrix: SOIL

Received Date: 7/13/2023 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	7/14/2023 4:25:08 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/14/2023 4:25:08 PM
Surr: DNOP	85.4	69-147		%Rec	1	7/14/2023 4:25:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2023 8:08:00 PM
Surr: BFB	98.4	15-244		%Rec	1	7/14/2023 8:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 8:08:00 PM
Toluene	ND	0.050		mg/Kg	1	7/14/2023 8:08:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2023 8:08:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/14/2023 8:08:00 PM
Surr: 4-Bromofluorobenzene	98.7	39.1-146		%Rec	1	7/14/2023 8:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	69	60		mg/Kg	20	7/14/2023 7:27:38 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.		

Analytical Report

Lab Order 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-38 2'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 9:25:00 AM

Lab ID: 2307525-002

Matrix: SOIL

Received Date: 7/13/2023 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	10		mg/Kg	1	7/14/2023 4:36:03 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2023 4:36:03 PM
Surr: DNOP	119	69-147		%Rec	1	7/14/2023 4:36:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2023 9:15:00 PM
Surr: BFB	99.5	15-244		%Rec	1	7/14/2023 9:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 9:15:00 PM
Toluene	ND	0.049		mg/Kg	1	7/14/2023 9:15:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2023 9:15:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/14/2023 9:15:00 PM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	7/14/2023 9:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	110	60		mg/Kg	20	7/14/2023 11:33:59 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-39 0'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 9:15:00 AM

Lab ID: 2307525-003

Matrix: SOIL

Received Date: 7/13/2023 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	9.0		mg/Kg	1	7/14/2023 4:47:08 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/14/2023 4:47:08 PM
Surr: DNOP	90.0	69-147		%Rec	1	7/14/2023 4:47:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2023 10:42:00 PM
Surr: BFB	101	15-244		%Rec	1	7/14/2023 10:42:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 10:42:00 PM
Toluene	ND	0.049		mg/Kg	1	7/14/2023 10:42:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2023 10:42:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2023 10:42:00 PM
Surr: 4-Bromofluorobenzene	95.8	39.1-146		%Rec	1	7/14/2023 10:42:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	430	60		mg/Kg	20	7/14/2023 12:11:13 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.		

Analytical Report

Lab Order 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-39 2'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 9:25:00 AM

Lab ID: 2307525-004

Matrix: SOIL

Received Date: 7/13/2023 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	9.4		mg/Kg	1	7/14/2023 4:58:11 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2023 4:58:11 PM
Surr: DNOP	70.8	69-147		%Rec	1	7/14/2023 4:58:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2023 11:04:00 PM
Surr: BFB	98.3	15-244		%Rec	1	7/14/2023 11:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/14/2023 11:04:00 PM
Toluene	ND	0.050		mg/Kg	1	7/14/2023 11:04:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2023 11:04:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/14/2023 11:04:00 PM
Surr: 4-Bromofluorobenzene	97.4	39.1-146		%Rec	1	7/14/2023 11:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	95	60		mg/Kg	20	7/14/2023 12:48:27 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-40 0'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 9:30:00 AM

Lab ID: 2307525-005

Matrix: SOIL

Received Date: 7/13/2023 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)	14	8.5		mg/Kg	1	7/14/2023 5:09:13 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	7/14/2023 5:09:13 PM
Surr: DNOP	92.6	69-147		%Rec	1	7/14/2023 5:09:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2023 11:26:00 PM
Surr: BFB	96.9	15-244		%Rec	1	7/14/2023 11:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 11:26:00 PM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 11:26:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 11:26:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2023 11:26:00 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	7/14/2023 11:26:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	3400	150		mg/Kg	50	7/18/2023 1:23:07 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-40 2'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 9:35:00 AM

Lab ID: 2307525-006

Matrix: SOIL

Received Date: 7/13/2023 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	9.3		mg/Kg	1	7/14/2023 6:11:03 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/14/2023 6:11:03 PM
Surr: DNOP	83.8	69-147		%Rec	1	7/14/2023 6:11:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2023 11:47:00 PM
Surr: BFB	98.1	15-244		%Rec	1	7/14/2023 11:47:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/14/2023 11:47:00 PM
Toluene	ND	0.048		mg/Kg	1	7/14/2023 11:47:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2023 11:47:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/14/2023 11:47:00 PM
Surr: 4-Bromofluorobenzene	97.9	39.1-146		%Rec	1	7/14/2023 11:47:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1800	61		mg/Kg	20	7/14/2023 1:38:06 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-41 0'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 9:35:00 AM

Lab ID: 2307525-007

Matrix: SOIL

Received Date: 7/13/2023 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	8.9		mg/Kg	1	7/14/2023 6:22:11 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/14/2023 6:22:11 PM
Surr: DNOP	91.8	69-147		%Rec	1	7/14/2023 6:22:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/15/2023 12:09:00 AM
Surr: BFB	101	15-244		%Rec	1	7/15/2023 12:09:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/15/2023 12:09:00 AM
Toluene	ND	0.048		mg/Kg	1	7/15/2023 12:09:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/15/2023 12:09:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/15/2023 12:09:00 AM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	7/15/2023 12:09:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	2500	150		mg/Kg	50	7/18/2023 1:35:32 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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Analytical Report

Lab Order 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-41 2'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 9:40:00 AM

Lab ID: 2307525-008

Matrix: SOIL

Received Date: 7/13/2023 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	9.0		mg/Kg	1	7/14/2023 6:33:15 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/14/2023 6:33:15 PM
Surr: DNOP	118	69-147		%Rec	1	7/14/2023 6:33:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/15/2023 12:31:00 AM
Surr: BFB	103	15-244		%Rec	1	7/15/2023 12:31:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/15/2023 12:31:00 AM
Toluene	ND	0.048		mg/Kg	1	7/15/2023 12:31:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/15/2023 12:31:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/15/2023 12:31:00 AM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	7/15/2023 12:31:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	590	60		mg/Kg	20	7/14/2023 2:02:55 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-42 0'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 9:45:00 AM

Lab ID: 2307525-009

Matrix: SOIL

Received Date: 7/13/2023 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	8.9		mg/Kg	1	7/14/2023 6:55:03 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/14/2023 6:55:03 PM
Surr: DNOP	84.6	69-147		%Rec	1	7/14/2023 6:55:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/15/2023 12:53:00 AM
Surr: BFB	104	15-244		%Rec	1	7/15/2023 12:53:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/15/2023 12:53:00 AM
Toluene	ND	0.049		mg/Kg	1	7/15/2023 12:53:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/15/2023 12:53:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/15/2023 12:53:00 AM
Surr: 4-Bromofluorobenzene	104	39.1-146		%Rec	1	7/15/2023 12:53:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	190	60		mg/Kg	20	7/14/2023 2:15:20 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-42 2'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 9:50:00 AM

Lab ID: 2307525-010

Matrix: SOIL

Received Date: 7/13/2023 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	7/14/2023 7:06:02 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2023 7:06:02 PM
Surr: DNOP	114	69-147		%Rec	1	7/14/2023 7:06:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/15/2023 1:15:00 AM
Surr: BFB	106	15-244		%Rec	1	7/15/2023 1:15:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/15/2023 1:15:00 AM
Toluene	ND	0.050		mg/Kg	1	7/15/2023 1:15:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/15/2023 1:15:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/15/2023 1:15:00 AM
Surr: 4-Bromofluorobenzene	106	39.1-146		%Rec	1	7/15/2023 1:15:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	99	60		mg/Kg	20	7/14/2023 2:27:45 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.		

Analytical Report

Lab Order 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-43 0'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 9:45:00 AM

Lab ID: 2307525-011

Matrix: SOIL

Received Date: 7/13/2023 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	10		mg/Kg	1	7/14/2023 7:17:00 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2023 7:17:00 PM
Surr: DNOP	94.8	69-147		%Rec	1	7/14/2023 7:17:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/15/2023 1:59:00 AM
Surr: BFB	105	15-244		%Rec	1	7/15/2023 1:59:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/15/2023 1:59:00 AM
Toluene	ND	0.050		mg/Kg	1	7/15/2023 1:59:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/15/2023 1:59:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/15/2023 1:59:00 AM
Surr: 4-Bromofluorobenzene	107	39.1-146		%Rec	1	7/15/2023 1:59:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	77	60		mg/Kg	20	7/14/2023 2:40:09 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-43 2'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 9:50:00 AM

Lab ID: 2307525-012

Matrix: SOIL

Received Date: 7/13/2023 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	7/15/2023 4:57:38 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/15/2023 4:57:38 PM
Surr: DNOP	73.3	69-147		%Rec	1	7/15/2023 4:57:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/15/2023 2:20:00 AM
Surr: BFB	110	15-244		%Rec	1	7/15/2023 2:20:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/15/2023 2:20:00 AM
Toluene	ND	0.049		mg/Kg	1	7/15/2023 2:20:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/15/2023 2:20:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/15/2023 2:20:00 AM
Surr: 4-Bromofluorobenzene	110	39.1-146		%Rec	1	7/15/2023 2:20:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	59		mg/Kg	20	7/14/2023 2:52:34 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.		

Analytical Report

Lab Order 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-44 0'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 10:05:00 AM

Lab ID: 2307525-013

Matrix: SOIL

Received Date: 7/13/2023 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	7/17/2023 12:13:30 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/17/2023 12:13:30 PM
Surr: DNOP	85.7	69-147		%Rec	1	7/17/2023 12:13:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/15/2023 2:42:00 AM
Surr: BFB	110	15-244		%Rec	1	7/15/2023 2:42:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/15/2023 2:42:00 AM
Toluene	ND	0.047		mg/Kg	1	7/15/2023 2:42:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/15/2023 2:42:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/15/2023 2:42:00 AM
Surr: 4-Bromofluorobenzene	111	39.1-146		%Rec	1	7/15/2023 2:42:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	670	60		mg/Kg	20	7/14/2023 3:04:58 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-44 2'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 10:15:00 AM

Lab ID: 2307525-014

Matrix: SOIL

Received Date: 7/13/2023 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	9.4		mg/Kg	1	7/14/2023 7:49:42 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2023 7:49:42 PM
Surr: DNOP	94.9	69-147		%Rec	1	7/14/2023 7:49:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/15/2023 3:04:00 AM
Surr: BFB	113	15-244		%Rec	1	7/15/2023 3:04:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/15/2023 3:04:00 AM
Toluene	ND	0.049		mg/Kg	1	7/15/2023 3:04:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/15/2023 3:04:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/15/2023 3:04:00 AM
Surr: 4-Bromofluorobenzene	114	39.1-146		%Rec	1	7/15/2023 3:04:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1100	60		mg/Kg	20	7/14/2023 3:17:23 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-45 0'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 10:10:00 AM

Lab ID: 2307525-015

Matrix: SOIL

Received Date: 7/13/2023 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	9.9		mg/Kg	1	7/14/2023 8:00:34 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2023 8:00:34 PM
Surr: DNOP	76.0	69-147		%Rec	1	7/14/2023 8:00:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/15/2023 3:26:00 AM
Surr: BFB	115	15-244		%Rec	1	7/15/2023 3:26:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/15/2023 3:26:00 AM
Toluene	ND	0.049		mg/Kg	1	7/15/2023 3:26:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/15/2023 3:26:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/15/2023 3:26:00 AM
Surr: 4-Bromofluorobenzene	114	39.1-146		%Rec	1	7/15/2023 3:26:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1800	60		mg/Kg	20	7/14/2023 3:54:36 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-45 2'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 10:15:00 AM

Lab ID: 2307525-016

Matrix: SOIL

Received Date: 7/13/2023 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	9.3		mg/Kg	1	7/14/2023 8:11:24 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2023 8:11:24 PM
Surr: DNOP	105	69-147		%Rec	1	7/14/2023 8:11:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/15/2023 3:48:00 AM
Surr: BFB	114	15-244		%Rec	1	7/15/2023 3:48:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/15/2023 3:48:00 AM
Toluene	ND	0.048		mg/Kg	1	7/15/2023 3:48:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/15/2023 3:48:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/15/2023 3:48:00 AM
Surr: 4-Bromofluorobenzene	114	39.1-146		%Rec	1	7/15/2023 3:48:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1200	61		mg/Kg	20	7/14/2023 4:07:01 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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Analytical Report

Lab Order 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-46 0'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 10:25:00 AM

Lab ID: 2307525-017

Matrix: SOIL

Received Date: 7/13/2023 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	7/14/2023 8:22:13 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2023 8:22:13 PM
Surr: DNOP	89.3	69-147		%Rec	1	7/14/2023 8:22:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/15/2023 4:10:00 AM
Surr: BFB	113	15-244		%Rec	1	7/15/2023 4:10:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/15/2023 4:10:00 AM
Toluene	ND	0.048		mg/Kg	1	7/15/2023 4:10:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/15/2023 4:10:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/15/2023 4:10:00 AM
Surr: 4-Bromofluorobenzene	114	39.1-146		%Rec	1	7/15/2023 4:10:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	7/14/2023 4:19:26 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-46 2'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 10:30:00 AM

Lab ID: 2307525-018

Matrix: SOIL

Received Date: 7/13/2023 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	8.8		mg/Kg	1	7/14/2023 8:33:03 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/14/2023 8:33:03 PM
Surr: DNOP	97.0	69-147		%Rec	1	7/14/2023 8:33:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/15/2023 4:31:00 AM
Surr: BFB	119	15-244		%Rec	1	7/15/2023 4:31:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/15/2023 4:31:00 AM
Toluene	ND	0.047		mg/Kg	1	7/15/2023 4:31:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/15/2023 4:31:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/15/2023 4:31:00 AM
Surr: 4-Bromofluorobenzene	117	39.1-146		%Rec	1	7/15/2023 4:31:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	260	60		mg/Kg	20	7/14/2023 4:31:50 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-47 0'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 10:50:00 AM

Lab ID: 2307525-019

Matrix: SOIL

Received Date: 7/13/2023 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	7/14/2023 8:43:51 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/14/2023 8:43:51 PM
Surr: DNOP	93.8	69-147		%Rec	1	7/14/2023 8:43:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/15/2023 4:53:00 AM
Surr: BFB	121	15-244		%Rec	1	7/15/2023 4:53:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/15/2023 4:53:00 AM
Toluene	ND	0.049		mg/Kg	1	7/15/2023 4:53:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/15/2023 4:53:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/15/2023 4:53:00 AM
Surr: 4-Bromofluorobenzene	119	39.1-146		%Rec	1	7/15/2023 4:53:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1100	60		mg/Kg	20	7/14/2023 4:44:15 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.		

Analytical Report

Lab Order 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-47 2'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 10:50:00 AM

Lab ID: 2307525-020

Matrix: SOIL

Received Date: 7/13/2023 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	9.4		mg/Kg	1	7/14/2023 8:54:40 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2023 8:54:40 PM
Surr: DNOP	106	69-147		%Rec	1	7/14/2023 8:54:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/15/2023 5:15:00 AM
Surr: BFB	121	15-244		%Rec	1	7/15/2023 5:15:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/15/2023 5:15:00 AM
Toluene	ND	0.048		mg/Kg	1	7/15/2023 5:15:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/15/2023 5:15:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/15/2023 5:15:00 AM
Surr: 4-Bromofluorobenzene	119	39.1-146		%Rec	1	7/15/2023 5:15:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	330	60		mg/Kg	20	7/14/2023 4:56:40 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-48 0'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 11:00:00 AM

Lab ID: 2307525-021

Matrix: SOIL

Received Date: 7/13/2023 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	7/14/2023 10:00:27 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/14/2023 10:00:27 PM
Surr: DNOP	89.6	69-147		%Rec	1	7/14/2023 10:00:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2023 2:08:00 PM
Surr: BFB	82.4	15-244		%Rec	1	7/17/2023 2:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/17/2023 2:08:00 PM
Toluene	ND	0.049		mg/Kg	1	7/17/2023 2:08:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2023 2:08:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2023 2:08:00 PM
Surr: 4-Bromofluorobenzene	83.8	39.1-146		%Rec	1	7/17/2023 2:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	2100	150		mg/Kg	50	7/18/2023 1:47:56 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.		

Analytical Report

Lab Order 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-48 2'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 11:05:00 AM

Lab ID: 2307525-022

Matrix: SOIL

Received Date: 7/13/2023 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	7/14/2023 10:48:16 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2023 10:48:16 PM
Surr: DNOP	93.9	69-147		%Rec	1	7/14/2023 10:48:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2023 2:30:00 PM
Surr: BFB	85.9	15-244		%Rec	1	7/17/2023 2:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/17/2023 2:30:00 PM
Toluene	ND	0.049		mg/Kg	1	7/17/2023 2:30:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2023 2:30:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/17/2023 2:30:00 PM
Surr: 4-Bromofluorobenzene	85.0	39.1-146		%Rec	1	7/17/2023 2:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1400	60		mg/Kg	20	7/14/2023 4:14:06 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.		

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Analytical Report

Lab Order 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-49 0'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 11:10:00 AM

Lab ID: 2307525-023

Matrix: SOIL

Received Date: 7/13/2023 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	7/14/2023 11:12:14 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/14/2023 11:12:14 PM
Surr: DNOP	102	69-147		%Rec	1	7/14/2023 11:12:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/17/2023 2:52:00 PM
Surr: BFB	87.2	15-244		%Rec	1	7/17/2023 2:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/17/2023 2:52:00 PM
Toluene	ND	0.050		mg/Kg	1	7/17/2023 2:52:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/17/2023 2:52:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/17/2023 2:52:00 PM
Surr: 4-Bromofluorobenzene	83.4	39.1-146		%Rec	1	7/17/2023 2:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	7/14/2023 4:51:20 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.		

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Analytical Report

Lab Order 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-49 2'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 11:15:00 AM

Lab ID: 2307525-024

Matrix: SOIL

Received Date: 7/13/2023 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	10		mg/Kg	1	7/14/2023 11:36:11 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2023 11:36:11 PM
Surr: DNOP	113	69-147		%Rec	1	7/14/2023 11:36:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/17/2023 3:14:00 PM
Surr: BFB	83.7	15-244		%Rec	1	7/17/2023 3:14:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/17/2023 3:14:00 PM
Toluene	ND	0.050		mg/Kg	1	7/17/2023 3:14:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/17/2023 3:14:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2023 3:14:00 PM
Surr: 4-Bromofluorobenzene	83.1	39.1-146		%Rec	1	7/17/2023 3:14:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	7/14/2023 5:28:34 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-50 0'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 11:25:00 AM

Lab ID: 2307525-025

Matrix: SOIL

Received Date: 7/13/2023 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	9.9		mg/Kg	1	7/15/2023 12:00:06 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/15/2023 12:00:06 AM
Surr: DNOP	90.8	69-147		%Rec	1	7/15/2023 12:00:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2023 3:36:00 PM
Surr: BFB	86.7	15-244		%Rec	1	7/17/2023 3:36:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/17/2023 3:36:00 PM
Toluene	ND	0.048		mg/Kg	1	7/17/2023 3:36:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2023 3:36:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/17/2023 3:36:00 PM
Surr: 4-Bromofluorobenzene	83.8	39.1-146		%Rec	1	7/17/2023 3:36:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	61		mg/Kg	20	7/14/2023 5:40:59 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 2307525

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-50 2'

Project: SDE 31 Federal CTB

Collection Date: 7/11/2023 11:30:00 AM

Lab ID: 2307525-026

Matrix: SOIL

Received Date: 7/13/2023 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	10		mg/Kg	1	7/15/2023 12:24:02 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2023 12:24:02 AM
Surr: DNOP	96.3	69-147		%Rec	1	7/15/2023 12:24:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2023 3:58:00 PM
Surr: BFB	87.4	15-244		%Rec	1	7/17/2023 3:58:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/17/2023 3:58:00 PM
Toluene	ND	0.049		mg/Kg	1	7/17/2023 3:58:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2023 3:58:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/17/2023 3:58:00 PM
Surr: 4-Bromofluorobenzene	83.4	39.1-146		%Rec	1	7/17/2023 3:58:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	310	60		mg/Kg	20	7/14/2023 5:53:23 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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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2307525

24-Jul-23

Client: Vertex Resources Services, Inc.
Project: SDE 31 Federal CTB

Sample ID: MB-76202		SampType: mblk			TestCode: EPA Method 300.0: Anions					
Client ID: PBS		Batch ID: 76202			RunNo: 98195					
Prep Date: 7/13/2023		Analysis Date: 7/14/2023			SeqNo: 3573322		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76202		SampType: lcs			TestCode: EPA Method 300.0: Anions					
Client ID: LCSS		Batch ID: 76202			RunNo: 98195					
Prep Date: 7/13/2023		Analysis Date: 7/14/2023			SeqNo: 3573323		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.9	90	110			

Sample ID: MB-76214		SampType: mblk			TestCode: EPA Method 300.0: Anions					
Client ID: PBS		Batch ID: 76214			RunNo: 98234					
Prep Date: 7/14/2023		Analysis Date: 7/14/2023			SeqNo: 3574951		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76214		SampType: lcs			TestCode: EPA Method 300.0: Anions					
Client ID: LCSS		Batch ID: 76214			RunNo: 98234					
Prep Date: 7/14/2023		Analysis Date: 7/14/2023			SeqNo: 3574952		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-76210		SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID: PBS		Batch ID: 76210			RunNo: 98246					
Prep Date: 7/14/2023		Analysis Date: 7/14/2023			SeqNo: 3575644		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76210		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID: LCSS		Batch ID: 76210			RunNo: 98246					
Prep Date: 7/14/2023		Analysis Date: 7/14/2023			SeqNo: 3575645		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.9	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

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

WO#: 2307525

24-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal CTB

Sample ID: MB-76190	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 76190		RunNo: 98223							
Prep Date: 7/13/2023	Analysis Date: 7/14/2023		SeqNo: 3574283		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		122	69	147			

Sample ID: LCS-76190	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 76190		RunNo: 98223							
Prep Date: 7/13/2023	Analysis Date: 7/14/2023		SeqNo: 3574284		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	99.4	61.9	130			
Surr: DNOP	5.1		5.000		101	69	147			

Sample ID: 2307525-025AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH23-50 0'	Batch ID: 76190		RunNo: 98223							
Prep Date: 7/13/2023	Analysis Date: 7/15/2023		SeqNo: 3574331		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.8	48.83	0	95.1	54.2	135			
Surr: DNOP	4.5		4.883		93.1	69	147			

Sample ID: 2307525-025AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH23-50 0'	Batch ID: 76190		RunNo: 98223							
Prep Date: 7/13/2023	Analysis Date: 7/15/2023		SeqNo: 3574332		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.8	48.97	0	74.9	54.2	135	23.5	29.2	
Surr: DNOP	3.3		4.897		67.1	69	147	0	0	S

Sample ID: 2307525-001AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH23-38 0'	Batch ID: 76194		RunNo: 98217							
Prep Date: 7/13/2023	Analysis Date: 7/15/2023		SeqNo: 3574346		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.1	45.66	0	78.3	54.2	135			
Surr: DNOP	3.4		4.566		73.7	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#: 2307525

24-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal CTB

Sample ID: 2307525-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH23-38 0'	Batch ID: 76194	RunNo: 98217								
Prep Date: 7/13/2023	Analysis Date: 7/15/2023	SeqNo: 3574347			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.9	49.31	0	76.4	54.2	135	5.23	29.2	
Surr: DNOP	3.8		4.931		76.5	69	147	0	0	

Sample ID: LCS-76194	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 76194	RunNo: 98217								
Prep Date: 7/13/2023	Analysis Date: 7/14/2023	SeqNo: 3574432			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	86.5	61.9	130			
Surr: DNOP	4.3		5.000		86.0	69	147			

Sample ID: MB-76194	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 76194	RunNo: 98217								
Prep Date: 7/13/2023	Analysis Date: 7/14/2023	SeqNo: 3574435			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	9.4		10.00		94.0	69	147			

Sample ID: MB-76217	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 76217	RunNo: 98269								
Prep Date: 7/14/2023	Analysis Date: 7/17/2023	SeqNo: 3576667			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		93.8	69	147			

Sample ID: LCS-76217	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 76217	RunNo: 98269								
Prep Date: 7/14/2023	Analysis Date: 7/17/2023	SeqNo: 3576668			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.9	69	147			

Sample ID: MB-76249	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 76249	RunNo: 98269								
Prep Date: 7/17/2023	Analysis Date: 7/17/2023	SeqNo: 3576669			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								

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#: 2307525

24-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal CTB

Sample ID: MB-76249	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 76249		RunNo: 98269							
Prep Date: 7/17/2023	Analysis Date: 7/17/2023		SeqNo: 3576669		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		80.9	69	147			

Sample ID: LCS-76249	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 76249		RunNo: 98269							
Prep Date: 7/17/2023	Analysis Date: 7/17/2023		SeqNo: 3576670		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	82.9	61.9	130			
Surr: DNOP	4.1		5.000		81.2	69	147			

Sample ID: 2307525-013AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH23-44 0'	Batch ID: 76249		RunNo: 98269							
Prep Date: 7/17/2023	Analysis Date: 7/17/2023		SeqNo: 3576699		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.0	44.96	0	88.4	54.2	135			
Surr: DNOP	3.7		4.496		82.7	69	147			

Sample ID: 2307525-013AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH23-44 0'	Batch ID: 76249		RunNo: 98269							
Prep Date: 7/17/2023	Analysis Date: 7/17/2023		SeqNo: 3576701		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.0	45.13	0	87.5	54.2	135	0.638	29.2	
Surr: DNOP	3.7		4.513		81.8	69	147	0	0	

Sample ID: MB-76249	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 76249		RunNo: 98269							
Prep Date: 7/17/2023	Analysis Date: 7/17/2023		SeqNo: 3576707		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		80.5	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#: 2307525

24-Jul-23

Client: Vertex Resources Services, Inc.
Project: SDE 31 Federal CTB

Sample ID: LCS-76249	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 76249	RunNo: 98269								
Prep Date: 7/17/2023	Analysis Date: 7/17/2023	SeqNo: 3576711 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.8	61.9	130			
Surr: DNOP	4.0		5.000		79.5	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

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

WO#: 2307525

24-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal CTB

Sample ID: ics-76172	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 76172			RunNo: 98207						
Prep Date: 7/13/2023	Analysis Date: 7/14/2023			SeqNo: 3575220		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	92.1	70	130			
Surr: BFB	2100		1000		214	15	244			

Sample ID: mb-76172	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 76172			RunNo: 98207						
Prep Date: 7/13/2023	Analysis Date: 7/14/2023			SeqNo: 3575221		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		98.9	15	244			

Sample ID: 2307525-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-38 0'	Batch ID: 76172			RunNo: 98207						
Prep Date: 7/13/2023	Analysis Date: 7/14/2023			SeqNo: 3575223		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.83	0	96.9	70	130			
Surr: BFB	2200		993.0		219	15	244			

Sample ID: 2307525-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-38 0'	Batch ID: 76172			RunNo: 98207						
Prep Date: 7/13/2023	Analysis Date: 7/14/2023			SeqNo: 3575224		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.75	0	97.3	70	130	0.156	20	
Surr: BFB	2100		990.1		216	15	244	0	0	

Sample ID: ics-76175	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 76175			RunNo: 98241						
Prep Date: 7/13/2023	Analysis Date: 7/17/2023			SeqNo: 3576157		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	99.5	70	130			
Surr: BFB	2100		1000		205	15	244			

Sample ID: mb-76175	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 76175			RunNo: 98241						
Prep Date: 7/13/2023	Analysis Date: 7/17/2023			SeqNo: 3576158		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#: 2307525

24-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal CTB

Sample ID: mb-76175	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 76175			RunNo: 98241						
Prep Date: 7/13/2023	Analysis Date: 7/17/2023			SeqNo: 3576158		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	860		1000		86.1	15	244			

Sample ID: lcs-76209	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 76209			RunNo: 98241						
Prep Date: 7/14/2023	Analysis Date: 7/18/2023			SeqNo: 3576385		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		201	15	244			

Sample ID: mb-76209	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 76209			RunNo: 98241						
Prep Date: 7/14/2023	Analysis Date: 7/18/2023			SeqNo: 3576386		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	790		1000		79.1	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 33 of 35

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

WO#: 2307525

24-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal CTB

Sample ID: lcs-76172	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 76172			RunNo: 98207						
Prep Date: 7/13/2023	Analysis Date: 7/14/2023			SeqNo: 3575267		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	70	130			
Toluene	0.87	0.050	1.000	0	86.7	70	130			
Ethylbenzene	0.88	0.050	1.000	0	88.0	70	130			
Xylenes, Total	2.6	0.10	3.000	0	88.3	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	39.1	146			

Sample ID: mb-76172	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 76172			RunNo: 98207						
Prep Date: 7/13/2023	Analysis Date: 7/14/2023			SeqNo: 3575268		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		97.8	39.1	146			

Sample ID: 2307525-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: BH23-38 2'	Batch ID: 76172			RunNo: 98207						
Prep Date: 7/13/2023	Analysis Date: 7/14/2023			SeqNo: 3575271		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9747	0	96.9	70	130			
Toluene	0.96	0.049	0.9747	0	98.8	70	130			
Ethylbenzene	0.98	0.049	0.9747	0	101	70	130			
Xylenes, Total	2.9	0.097	2.924	0	101	70	130			
Surr: 4-Bromofluorobenzene	0.96		0.9747		98.8	39.1	146			

Sample ID: 2307525-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: BH23-38 2'	Batch ID: 76172			RunNo: 98207						
Prep Date: 7/13/2023	Analysis Date: 7/14/2023			SeqNo: 3575272		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9843	0	94.8	70	130	1.26	20	
Toluene	0.95	0.049	0.9843	0	96.5	70	130	1.43	20	
Ethylbenzene	0.97	0.049	0.9843	0	98.9	70	130	0.818	20	
Xylenes, Total	2.9	0.098	2.953	0	98.8	70	130	0.908	20	
Surr: 4-Bromofluorobenzene	0.96		0.9843		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

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

WO#: 2307525

24-Jul-23

Client: Vertex Resources Services, Inc.**Project:** SDE 31 Federal CTB

Sample ID: ics-76175	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 76175			RunNo: 98241						
Prep Date: 7/13/2023	Analysis Date: 7/17/2023			SeqNo: 3576185			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	0.99	0.050	1.000	0	98.6	70	130			
Ethylbenzene	1.0	0.050	1.000	0	100	70	130			
Xylenes, Total	3.0	0.10	3.000	0	100	70	130			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	39.1	146			

Sample ID: mb-76175	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 76175			RunNo: 98241						
Prep Date: 7/13/2023	Analysis Date: 7/17/2023			SeqNo: 3576186			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	0.83		1.000		82.7	39.1	146			

Sample ID: ics-76209	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 76209			RunNo: 98241						
Prep Date: 7/14/2023	Analysis Date: 7/18/2023			SeqNo: 3576413			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.81		1.000		80.5	39.1	146			

Sample ID: mb-76209	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 76209			RunNo: 98241						
Prep Date: 7/14/2023	Analysis Date: 7/18/2023			SeqNo: 3576414			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.80		1.000		79.5	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: 2307525

RcptNo: 1

Received By: Juan Rojas

7/13/2023 7:30:00 AM

Completed By: Cheyenne Cason

7/13/2023 7:55:26 AM

Reviewed By: *7/13/23*

[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 $>0^{\circ}\text{C}$ 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 07/13/23

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.7	Good	Not Present	Morty		

Chain-of-Custody Record

Client: Vertex
(Devon)
 Mailing Address: on file
 Phone #: _____
 email or Fax#: permian@vertex.ca
 QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
 Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:

☐ Standard ☒ Rush 48 hr

Project Name:

SDE 31 Federal CTB

Project #:

21E-02816-34

Project Manager:

Kent Stallings

Sampler:

SPC

On Ice:

☒ Yes ☐ No

of Coolers:

1

Cooler Temp (including CF):

2.8-0.1=2.7 (°C)

Container Type and #

Preservative Type

HEAL No.

Date	Time	Matrix	Sample Name
7/11/23	9:25	Soil	BH23-38 0'
	9:25		BH23-38 2'
	9:15		BH23-39 0'
	9:25		BH23-39 2'
	9:30		BH23-40 0'
	9:35		BH23-40 2'
	9:35		BH23-41 0'
	9:40		BH23-41 2'
	9:45		BH23-42 0'
	9:50		BH23-42 2'
	9:45		BH23-43 0'
	9:50		BH23-43 2'

Received by:

Via:

Date

Time

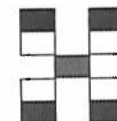
Amunio7/12/23945

Received by:

Via:

Date

Time

Amunio7/13/237:53

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	CLF, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)										
✓	✓					✓													

Date: Time: Relinquished by:

7/11/23 1513 Sally Carter

Date: Time: Relinquished by:

7/12/23 1900 Amunio

Remarks:

Direct Bill Devon, Dale Woodall PP 1/3

Harvard Div. Site SDE 31 Federal 004

GL Account 7700100

CC 1007884901

Final: Kstallings@

Vertex

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
(Devon)

Mailing Address: on file

Phone #: _____

email or Fax#: permian@vertex.ca

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☐ Standard ☒ Rush 48 hr

Project Name:	
---------------	--

SDE 31 Federal CTB

Project #:

21E-02816-34

Project Manager:

Kent Stallings

Sampler: SPC

On Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): 7.8-0.1 = 7.7 (°C)

Container
Type and #Preservative
Type

HEAL No.

7307525

Date	Time	Matrix	Sample Name
7/11/23	1005	Soil	BH23-44 0'
	1015		BH23-44 2'
	1010		BH23-45 0'
	1015		BH23-45 2'
	1025		BH23-46 0'
	1030		BH23-46 2'
	1050	sc	BH23-47 0'
	1050		BH23-47 2'
	1100		BH23-48 0'
	1105		BH23-48 2'
	1110		BH23-49 0'
	1115		BH23-49 2'

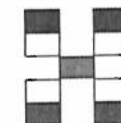
Date:	Time:	Relinquished by:
7/11/23	1514	Jally Carter

Date:	Time:	Relinquished by:
7/13/03	1900	Gymnasium

Received by:	Via:	Date	Time
--------------	------	------	------

Amunin 7/12/23 945

Received by: counter Via: _____ Date 7/13/23 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

✓	BTX, 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: Direct Bill Devon, Dale Woodall
Harvard Div. SHE SDE 31 Federal 004
EL Account 7700100
CC 1007884901
Final Rpt. kstallings@ver

Chain-of-Custody Record

Client: Vertex
 (Devon)
 Mailing Address: on file
 Phone #:
 email or Fax#: permian@vertex.ca
 QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
 Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:

☐ Standard☒ Rush 48 hr

Project Name:

SDE 31 Federal CTB

Project #:

21E-02816-34

Project Manager:

Kent Stallings

Sampler:

SPC

On Ice:

☒ Yes☐ No

of Coolers:

1Cooler Temp (including CF): 7.8-0.1 = 7.7 (°C)Container
Type and #Preservative
Type

HEAL No.

Date	Time	Matrix	Sample Name
7/11/23	1125	Soil	BH 23-50 0'
"	1130	"	BH23-50 2'

1 4oz jar

ice

025

"

"

026

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

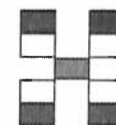
Cd, F, Br, NO₃, NO₂, PO₄, SO₄

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: 7/11/23 Time: 1514 Relinquished by: Sally Carter
 Date: 7/13/23 Time: 1900 Relinquished by: Kent Stallings

Received by: Kent Stallings Via: 7/13/23 945
 Received by: Kent Stallings Via: 7/13/23 7:30

Remarks:
 Direct Bill Devon, Dale Woodall
 Harvard Div Site SDE 31 Federal 004
 GL Account 7700100
 CC 1007884901

PP 813

Final Report KStallings@
Vertex.ca



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kent Stallings
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 4/24/2024 4:43:10 PM

JOB DESCRIPTION

SDE 31 Federal CTB

JOB NUMBER

885-2613-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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4/24/2024 4:43:10 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Vertex
Project/Site: SDE 31 Federal CTB

Laboratory Job ID: 885-2613-1

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Definitions/Glossary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Albuquerque

Case Narrative

Client: Vertex
Project: SDE 31 Federal CTB

Job ID: 885-2613-1

Job ID: 885-2613-1

Eurofins Albuquerque

Job Narrative
885-2613-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/10/2024 7:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Gasoline Range Organics

Method 8015D_GRO: Internal standard responses were outside of acceptance limits for the following sample: BH24-01 0.5' (885-2613-5). The sample(s) shows evidence of matrix interference.

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-3047 and analytical batch 885-3182 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015D_DRO: The following samples were diluted due to the nature of the sample matrix: BH24-04 0.5' (885-2613-4), BH24-01 0.5' (885-2613-5), BH24-04 2' (885-2613-8) and BH24-04 4' (885-2613-9). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-3047 and analytical batch 885-3263 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015D_DRO: The following samples were diluted due to 1/10th, the nature of the sample matrix OR abundance of target analytes OR abundance of non-target analytes: BH24-02 0.5' (885-2613-6), BH24-03 0.5' (885-2613-7) and BH24-07 0.5' (885-2613-16). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-78020 and 880-78020 and analytical batch 880-78093 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

BH24-04 7' (885-2613-11), BH24-05 0.5' (885-2613-12), BH24-05 2' (885-2613-13), BH24-06 2' (885-2613-15), BH24-07 0.5' (885-2613-16), BH24-07 2' (885-2613-17), BH24-08 0.5' (885-2613-18), BH24-08 2' (885-2613-19), (885-2613-B-11-B MS) and (885-2613-B-11-C MSD)

Eurofins Albuquerque

Case Narrative

Client: Vertex
Project: SDE 31 Federal CTB

Job ID: 885-2613-1

Job ID: 885-2613-1 (Continued) **Eurofins Albuquerque**

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

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Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-01 2'

Lab Sample ID: 885-2613-1

Date Collected: 04/04/24 10:40

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/10/24 12:54	04/11/24 23:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/10/24 12:54	04/11/24 23:13	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/10/24 12:54	04/11/24 23:13	1
Ethylbenzene	ND		0.049	mg/Kg		04/10/24 12:54	04/11/24 23:13	1
Toluene	ND		0.049	mg/Kg		04/10/24 12:54	04/11/24 23:13	1
Xylenes, Total	ND		0.098	mg/Kg		04/10/24 12:54	04/11/24 23:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/10/24 12:54	04/11/24 23:13	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	290		9.6	mg/Kg		04/10/24 14:37	04/11/24 18:13	1
Motor Oil Range Organics [C28-C40]	200		48	mg/Kg		04/10/24 14:37	04/11/24 18:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			04/10/24 14:37	04/11/24 18:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	950		5.1	mg/Kg			04/13/24 04:50	1

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-02 2'

Lab Sample ID: 885-2613-2

Date Collected: 04/04/24 11:10

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/10/24 12:54	04/11/24 23:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 244			04/10/24 12:54	04/11/24 23:37	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/10/24 12:54	04/11/24 23:37	1
Ethylbenzene	ND		0.050	mg/Kg		04/10/24 12:54	04/11/24 23:37	1
Toluene	ND		0.050	mg/Kg		04/10/24 12:54	04/11/24 23:37	1
Xylenes, Total	ND		0.099	mg/Kg		04/10/24 12:54	04/11/24 23:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146			04/10/24 12:54	04/11/24 23:37	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	68		8.8	mg/Kg		04/10/24 14:37	04/11/24 18:37	1
Motor Oil Range Organics [C28-C40]	170		44	mg/Kg		04/10/24 14:37	04/11/24 18:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	80		62 - 134			04/10/24 14:37	04/11/24 18:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		5.0	mg/Kg			04/13/24 05:04	1

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-03 2'

Lab Sample ID: 885-2613-3

Date Collected: 04/04/24 11:40

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/10/24 12:54	04/12/24 00:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 244			04/10/24 12:54	04/12/24 00:01	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/10/24 12:54	04/12/24 00:01	1
Ethylbenzene	ND		0.049	mg/Kg		04/10/24 12:54	04/12/24 00:01	1
Toluene	ND		0.049	mg/Kg		04/10/24 12:54	04/12/24 00:01	1
Xylenes, Total	ND		0.098	mg/Kg		04/10/24 12:54	04/12/24 00:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146			04/10/24 12:54	04/12/24 00:01	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		04/10/24 14:37	04/11/24 20:14	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/10/24 14:37	04/11/24 20:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			04/10/24 14:37	04/11/24 20:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100		25	mg/Kg			04/13/24 05:09	5

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-04 0.5'

Lab Sample ID: 885-2613-4

Date Collected: 04/04/24 12:00

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/10/24 12:54	04/12/24 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244	04/10/24 12:54	04/12/24 00:48	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/10/24 12:54	04/12/24 00:48	1
Ethylbenzene	ND		0.047	mg/Kg		04/10/24 12:54	04/12/24 00:48	1
Toluene	ND		0.047	mg/Kg		04/10/24 12:54	04/12/24 00:48	1
Xylenes, Total	ND		0.094	mg/Kg		04/10/24 12:54	04/12/24 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146	04/10/24 12:54	04/12/24 00:48	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14000		470	mg/Kg		04/10/24 14:37	04/11/24 15:01	50
Motor Oil Range Organics [C28-C40]	7000		2300	mg/Kg		04/10/24 14:37	04/11/24 15:01	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134	04/10/24 14:37	04/11/24 15:01	50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8700		50	mg/Kg			04/13/24 05:14	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-01 0.5'

Lab Sample ID: 885-2613-5

Date Collected: 04/05/24 09:00

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	120		4.6	mg/Kg		04/10/24 12:54	04/12/24 01:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	534	S1+	15 - 244			04/10/24 12:54	04/12/24 01:12	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/10/24 12:54	04/12/24 01:12	1
Ethylbenzene	ND		0.046	mg/Kg		04/10/24 12:54	04/12/24 01:12	1
Toluene	ND		0.046	mg/Kg		04/10/24 12:54	04/12/24 01:12	1
Xylenes, Total	0.93		0.092	mg/Kg		04/10/24 12:54	04/12/24 01:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		39 - 146			04/10/24 12:54	04/12/24 01:12	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12000		480	mg/Kg		04/10/24 14:37	04/11/24 15:25	50
Motor Oil Range Organics [C28-C40]	7200		2400	mg/Kg		04/10/24 14:37	04/11/24 15:25	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			04/10/24 14:37	04/11/24 15:25	50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500		25	mg/Kg			04/13/24 05:18	5

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-02 0.5'

Lab Sample ID: 885-2613-6

Date Collected: 04/05/24 09:10

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/10/24 12:54	04/12/24 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142		15 - 244	04/10/24 12:54	04/12/24 17:22	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/10/24 12:54	04/12/24 01:35	1
Ethylbenzene	ND		0.048	mg/Kg		04/10/24 12:54	04/12/24 01:35	1
Toluene	ND		0.048	mg/Kg		04/10/24 12:54	04/12/24 01:35	1
Xylenes, Total	ND		0.097	mg/Kg		04/10/24 12:54	04/12/24 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		39 - 146	04/10/24 12:54	04/12/24 01:35	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1700		89	mg/Kg		04/10/24 14:37	04/12/24 12:46	10
Motor Oil Range Organics [C28-C40]	1100		450	mg/Kg		04/10/24 14:37	04/12/24 12:46	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134	04/10/24 14:37	04/12/24 12:46	10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		5.0	mg/Kg			04/13/24 05:33	1

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-03 0.5'

Lab Sample ID: 885-2613-7

Date Collected: 04/05/24 09:20

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/10/24 12:54	04/12/24 01:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/10/24 12:54	04/12/24 01:59	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/10/24 12:54	04/12/24 01:59	1
Ethylbenzene	ND		0.047	mg/Kg		04/10/24 12:54	04/12/24 01:59	1
Toluene	ND		0.047	mg/Kg		04/10/24 12:54	04/12/24 01:59	1
Xylenes, Total	ND		0.094	mg/Kg		04/10/24 12:54	04/12/24 01:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146			04/10/24 12:54	04/12/24 01:59	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	750		89	mg/Kg		04/10/24 14:37	04/12/24 13:34	10
Motor Oil Range Organics [C28-C40]	1200		440	mg/Kg		04/10/24 14:37	04/12/24 13:34	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			04/10/24 14:37	04/12/24 13:34	10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5300		50	mg/Kg			04/13/24 05:38	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-04 2'

Lab Sample ID: 885-2613-8

Date Collected: 04/05/24 09:30

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/10/24 12:54	04/12/24 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244	04/10/24 12:54	04/12/24 02:22	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/10/24 12:54	04/12/24 02:22	1
Ethylbenzene	ND		0.048	mg/Kg		04/10/24 12:54	04/12/24 02:22	1
Toluene	ND		0.048	mg/Kg		04/10/24 12:54	04/12/24 02:22	1
Xylenes, Total	ND		0.096	mg/Kg		04/10/24 12:54	04/12/24 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		39 - 146	04/10/24 12:54	04/12/24 02:22	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1300		170	mg/Kg		04/10/24 14:37	04/11/24 16:37	20
Motor Oil Range Organics [C28-C40]	1200		870	mg/Kg		04/10/24 14:37	04/11/24 16:37	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134	04/10/24 14:37	04/11/24 16:37	20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4100		50	mg/Kg			04/13/24 05:43	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-04 4'

Lab Sample ID: 885-2613-9

Date Collected: 04/05/24 09:40

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/10/24 12:54	04/12/24 02:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 244			04/10/24 12:54	04/12/24 02:46	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/10/24 12:54	04/12/24 02:46	1
Ethylbenzene	ND		0.049	mg/Kg		04/10/24 12:54	04/12/24 02:46	1
Toluene	ND		0.049	mg/Kg		04/10/24 12:54	04/12/24 02:46	1
Xylenes, Total	ND		0.098	mg/Kg		04/10/24 12:54	04/12/24 02:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146			04/10/24 12:54	04/12/24 02:46	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2500		190	mg/Kg		04/10/24 14:37	04/11/24 17:25	20
Motor Oil Range Organics [C28-C40]	2200		960	mg/Kg		04/10/24 14:37	04/11/24 17:25	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			04/10/24 14:37	04/11/24 17:25	20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3900		25	mg/Kg			04/13/24 05:47	5

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Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-04 6'

Lab Sample ID: 885-2613-10

Date Collected: 04/05/24 09:50

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/10/24 12:54	04/12/24 03:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/10/24 12:54	04/12/24 03:10	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/10/24 12:54	04/12/24 03:10	1
Ethylbenzene	ND		0.049	mg/Kg		04/10/24 12:54	04/12/24 03:10	1
Toluene	ND		0.049	mg/Kg		04/10/24 12:54	04/12/24 03:10	1
Xylenes, Total	ND		0.098	mg/Kg		04/10/24 12:54	04/12/24 03:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/10/24 12:54	04/12/24 03:10	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/10/24 14:37	04/11/24 20:38	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/10/24 14:37	04/11/24 20:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	84		62 - 134			04/10/24 14:37	04/11/24 20:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		25	mg/Kg			04/13/24 05:52	5

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Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-04 7'

Lab Sample ID: 885-2613-11

Date Collected: 04/05/24 10:00

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/10/24 12:54	04/12/24 03:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 244			04/10/24 12:54	04/12/24 03:33	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/10/24 12:54	04/12/24 03:33	1
Ethylbenzene	ND		0.047	mg/Kg		04/10/24 12:54	04/12/24 03:33	1
Toluene	ND		0.047	mg/Kg		04/10/24 12:54	04/12/24 03:33	1
Xylenes, Total	ND		0.093	mg/Kg		04/10/24 12:54	04/12/24 03:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		39 - 146			04/10/24 12:54	04/12/24 03:33	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	220		10	mg/Kg		04/10/24 14:37	04/12/24 14:22	1
Motor Oil Range Organics [C28-C40]	150		50	mg/Kg		04/10/24 14:37	04/12/24 14:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			04/10/24 14:37	04/12/24 14:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9600	F1	50	mg/Kg			04/13/24 05:57	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-05 0.5'

Lab Sample ID: 885-2613-12

Date Collected: 04/05/24 13:00

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/10/24 12:54	04/12/24 03:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 244			04/10/24 12:54	04/12/24 03:57	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/10/24 12:54	04/12/24 03:57	1
Ethylbenzene	ND		0.047	mg/Kg		04/10/24 12:54	04/12/24 03:57	1
Toluene	ND		0.047	mg/Kg		04/10/24 12:54	04/12/24 03:57	1
Xylenes, Total	ND		0.094	mg/Kg		04/10/24 12:54	04/12/24 03:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146			04/10/24 12:54	04/12/24 03:57	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		04/10/24 14:37	04/11/24 21:02	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/10/24 14:37	04/11/24 21:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			04/10/24 14:37	04/11/24 21:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4600		50	mg/Kg			04/13/24 06:11	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-05 2'

Lab Sample ID: 885-2613-13

Date Collected: 04/05/24 13:10

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/10/24 12:54	04/12/24 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 244	04/10/24 12:54	04/12/24 04:20	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/10/24 12:54	04/12/24 04:20	1
Ethylbenzene	ND		0.049	mg/Kg		04/10/24 12:54	04/12/24 04:20	1
Toluene	ND		0.049	mg/Kg		04/10/24 12:54	04/12/24 04:20	1
Xylenes, Total	ND		0.097	mg/Kg		04/10/24 12:54	04/12/24 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		39 - 146	04/10/24 12:54	04/12/24 04:20	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	F2	8.7	mg/Kg		04/10/24 14:37	04/11/24 21:26	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		04/10/24 14:37	04/11/24 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134	04/10/24 14:37	04/11/24 21:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4500		25	mg/Kg			04/13/24 06:16	5

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-06 0.5'

Lab Sample ID: 885-2613-14

Date Collected: 04/05/24 13:20

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		04/11/24 13:02	04/13/24 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 244			04/11/24 13:02	04/13/24 00:47	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/11/24 13:02	04/13/24 00:47	1
Ethylbenzene	ND		0.046	mg/Kg		04/11/24 13:02	04/13/24 00:47	1
Toluene	ND		0.046	mg/Kg		04/11/24 13:02	04/13/24 00:47	1
Xylenes, Total	ND		0.093	mg/Kg		04/11/24 13:02	04/13/24 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		39 - 146			04/11/24 13:02	04/13/24 00:47	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7	mg/Kg		04/11/24 14:31	04/12/24 20:01	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		04/11/24 14:31	04/12/24 20:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	76		62 - 134			04/11/24 14:31	04/12/24 20:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		5.0	mg/Kg			04/23/24 18:57	1

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-06 2'

Lab Sample ID: 885-2613-15

Date Collected: 04/05/24 13:30

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/11/24 13:02	04/13/24 01:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 244			04/11/24 13:02	04/13/24 01:11	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/11/24 13:02	04/13/24 01:11	1
Ethylbenzene	ND		0.047	mg/Kg		04/11/24 13:02	04/13/24 01:11	1
Toluene	ND		0.047	mg/Kg		04/11/24 13:02	04/13/24 01:11	1
Xylenes, Total	ND		0.094	mg/Kg		04/11/24 13:02	04/13/24 01:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/11/24 13:02	04/13/24 01:11	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	15		9.3	mg/Kg		04/11/24 14:31	04/12/24 20:25	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/11/24 14:31	04/12/24 20:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	66		62 - 134			04/11/24 14:31	04/12/24 20:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52		5.0	mg/Kg			04/13/24 06:31	1

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-07 0.5'

Lab Sample ID: 885-2613-16

Date Collected: 04/05/24 13:40

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/11/24 13:02	04/13/24 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244	04/11/24 13:02	04/13/24 01:34	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/11/24 13:02	04/13/24 01:34	1
Ethylbenzene	ND		0.048	mg/Kg		04/11/24 13:02	04/13/24 01:34	1
Toluene	ND		0.048	mg/Kg		04/11/24 13:02	04/13/24 01:34	1
Xylenes, Total	ND		0.096	mg/Kg		04/11/24 13:02	04/13/24 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		39 - 146	04/11/24 13:02	04/13/24 01:34	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14		9.3	mg/Kg		04/11/24 14:31	04/12/24 15:34	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/11/24 14:31	04/12/24 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	73		62 - 134	04/11/24 14:31	04/12/24 15:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		5.1	mg/Kg			04/13/24 06:36	1

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-07 2'

Lab Sample ID: 885-2613-17

Date Collected: 04/05/24 13:50

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/11/24 13:02	04/13/24 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244	04/11/24 13:02	04/13/24 01:58	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/11/24 13:02	04/13/24 01:58	1
Ethylbenzene	ND		0.047	mg/Kg		04/11/24 13:02	04/13/24 01:58	1
Toluene	ND		0.047	mg/Kg		04/11/24 13:02	04/13/24 01:58	1
Xylenes, Total	ND		0.095	mg/Kg		04/11/24 13:02	04/13/24 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		39 - 146	04/11/24 13:02	04/13/24 01:58	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		04/11/24 14:31	04/12/24 20:49	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/11/24 14:31	04/12/24 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	133		62 - 134	04/11/24 14:31	04/12/24 20:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31		5.1	mg/Kg			04/13/24 06:40	1

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-08 0.5'

Lab Sample ID: 885-2613-18

Date Collected: 04/05/24 14:00

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/11/24 13:02	04/13/24 02:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 244			04/11/24 13:02	04/13/24 02:21	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/11/24 13:02	04/13/24 02:21	1
Ethylbenzene	ND		0.047	mg/Kg		04/11/24 13:02	04/13/24 02:21	1
Toluene	ND		0.047	mg/Kg		04/11/24 13:02	04/13/24 02:21	1
Xylenes, Total	ND		0.094	mg/Kg		04/11/24 13:02	04/13/24 02:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146			04/11/24 13:02	04/13/24 02:21	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		04/11/24 14:31	04/12/24 21:14	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/11/24 14:31	04/12/24 21:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			04/11/24 14:31	04/12/24 21:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		5.0	mg/Kg			04/13/24 06:45	1

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-08 2'

Lab Sample ID: 885-2613-19

Date Collected: 04/05/24 14:10

Matrix: Solid

Date Received: 04/10/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/11/24 13:02	04/13/24 02:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244			04/11/24 13:02	04/13/24 02:45	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/11/24 13:02	04/13/24 02:45	1
Ethylbenzene	ND		0.049	mg/Kg		04/11/24 13:02	04/13/24 02:45	1
Toluene	ND		0.049	mg/Kg		04/11/24 13:02	04/13/24 02:45	1
Xylenes, Total	ND		0.098	mg/Kg		04/11/24 13:02	04/13/24 02:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/11/24 13:02	04/13/24 02:45	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		04/11/24 14:31	04/12/24 21:38	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/11/24 14:31	04/12/24 21:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			04/11/24 14:31	04/12/24 21:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41		5.0	mg/Kg			04/13/24 06:50	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-3040/1-A
Matrix: Solid
Analysis Batch: 3180

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3040

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/10/24 12:54	04/11/24 15:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 244			04/10/24 12:54	04/11/24 15:46	1

Lab Sample ID: LCS 885-3040/2-A
Matrix: Solid
Analysis Batch: 3180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	26.2		mg/Kg		105	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	208		15 - 244				

Lab Sample ID: MB 885-3124/1-A
Matrix: Solid
Analysis Batch: 3291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3124

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/11/24 13:02	04/12/24 15:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 244			04/11/24 13:02	04/12/24 15:25	1

Lab Sample ID: LCS 885-3124/2-A
Matrix: Solid
Analysis Batch: 3291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	25.5		mg/Kg		102	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	209		15 - 244				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-3040/1-A
Matrix: Solid
Analysis Batch: 3181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3040

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/10/24 12:54	04/11/24 15:46	1
Ethylbenzene	ND		0.050	mg/Kg		04/10/24 12:54	04/11/24 15:46	1
Toluene	ND		0.050	mg/Kg		04/10/24 12:54	04/11/24 15:46	1
Xylenes, Total	ND		0.10	mg/Kg		04/10/24 12:54	04/11/24 15:46	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-3040/1-A

Matrix: Solid

Analysis Batch: 3181

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3040

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146	04/10/24 12:54	04/11/24 15:46	1

Lab Sample ID: LCS 885-3040/3-A

Matrix: Solid

Analysis Batch: 3181

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.777		mg/Kg		78	70 - 130
Ethylbenzene	1.00	0.811		mg/Kg		81	70 - 130
m,p-Xylene	2.00	1.66		mg/Kg		83	70 - 130
o-Xylene	1.00	0.808		mg/Kg		81	70 - 130
Toluene	1.00	0.794		mg/Kg		79	70 - 130
Xylenes, Total	3.00	2.47		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		39 - 146

Lab Sample ID: MB 885-3124/1-A

Matrix: Solid

Analysis Batch: 3292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3124

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/11/24 13:02	04/12/24 15:25	1
Ethylbenzene	ND		0.050	mg/Kg		04/11/24 13:02	04/12/24 15:25	1
Toluene	ND		0.050	mg/Kg		04/11/24 13:02	04/12/24 15:25	1
Xylenes, Total	ND		0.10	mg/Kg		04/11/24 13:02	04/12/24 15:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		39 - 146	04/11/24 13:02	04/12/24 15:25	1

Lab Sample ID: LCS 885-3124/3-A

Matrix: Solid

Analysis Batch: 3292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.805		mg/Kg		80	70 - 130
Ethylbenzene	1.00	0.832		mg/Kg		83	70 - 130
m,p-Xylene	2.00	1.69		mg/Kg		84	70 - 130
o-Xylene	1.00	0.825		mg/Kg		82	70 - 130
Toluene	1.00	0.816		mg/Kg		82	70 - 130
Xylenes, Total	3.00	2.51		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		39 - 146

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-3047/1-A

Matrix: Solid

Analysis Batch: 3182

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3047

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/10/24 14:37	04/11/24 11:49	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/10/24 14:37	04/11/24 11:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			04/10/24 14:37	04/11/24 11:49	1

Lab Sample ID: LCS 885-3047/2-A

Matrix: Solid

Analysis Batch: 3182

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	50.6		mg/Kg		101	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	96		62 - 134				

Lab Sample ID: 885-2613-13 MS

Matrix: Solid

Analysis Batch: 3182

Client Sample ID: BH24-05 2'

Prep Type: Total/NA

Prep Batch: 3047

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND	F2	47.1	37.3		mg/Kg		79	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	77		62 - 134						

Lab Sample ID: 885-2613-13 MSD

Matrix: Solid

Analysis Batch: 3182

Client Sample ID: BH24-05 2'

Prep Type: Total/NA

Prep Batch: 3047

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND	F2	47.0	52.1	F2	mg/Kg		111	44 - 136	33	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	110		62 - 134								

Lab Sample ID: MB 885-3140/1-A

Matrix: Solid

Analysis Batch: 3263

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3140

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/11/24 14:31	04/12/24 11:10	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/11/24 14:31	04/12/24 11:10	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-3140/1-A

Matrix: Solid

Analysis Batch: 3263

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3140

Surrogate	%Recovery	MB MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	121		62 - 134	04/11/24 14:31	04/12/24 11:10	1

Lab Sample ID: LCS 885-3140/2-A

Matrix: Solid

Analysis Batch: 3263

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	52.3		mg/Kg		105	60 - 135
Surrogate	%Recovery	LCS LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	102		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-78020/1-A

Matrix: Solid

Analysis Batch: 78093

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB MB Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	5.0	mg/Kg			04/13/24 04:35	1

Lab Sample ID: LCS 880-78020/2-A

Matrix: Solid

Analysis Batch: 78093

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	272		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-78020/3-A

Matrix: Solid

Analysis Batch: 78093

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	272		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 885-2613-1 MS

Matrix: Solid

Analysis Batch: 78093

Client Sample ID: BH24-01 2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	950		253	1200		mg/Kg		96	90 - 110

Lab Sample ID: 885-2613-1 MSD

Matrix: Solid

Analysis Batch: 78093

Client Sample ID: BH24-01 2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	950		253	1200		mg/Kg		96	90 - 110	0	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-2613-11 MS

Matrix: Solid

Analysis Batch: 78093

Client Sample ID: BH24-04 7'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	9600	F1	2480	13100	F1	mg/Kg		141	90 - 110

Lab Sample ID: 885-2613-11 MSD

Matrix: Solid

Analysis Batch: 78093

Client Sample ID: BH24-04 7'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9600	F1	2480	13000	F1	mg/Kg		140	90 - 110	0	20

Lab Sample ID: MB 880-79018/1-A

Matrix: Solid

Analysis Batch: 79074

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg			04/23/24 16:32	1

Lab Sample ID: LCS 880-79018/2-A

Matrix: Solid

Analysis Batch: 79074

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-79018/3-A

Matrix: Solid

Analysis Batch: 79074

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	243		mg/Kg		97	90 - 110	0	20

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

GC VOA

Prep Batch: 3040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-1	BH24-01 2'	Total/NA	Solid	5030C	
885-2613-2	BH24-02 2'	Total/NA	Solid	5030C	
885-2613-3	BH24-03 2'	Total/NA	Solid	5030C	
885-2613-4	BH24-04 0.5'	Total/NA	Solid	5030C	
885-2613-5	BH24-01 0.5'	Total/NA	Solid	5030C	
885-2613-6	BH24-02 0.5'	Total/NA	Solid	5030C	
885-2613-7	BH24-03 0.5'	Total/NA	Solid	5030C	
885-2613-8	BH24-04 2'	Total/NA	Solid	5030C	
885-2613-9	BH24-04 4'	Total/NA	Solid	5030C	
885-2613-10	BH24-04 6'	Total/NA	Solid	5030C	
885-2613-11	BH24-04 7'	Total/NA	Solid	5030C	
885-2613-12	BH24-05 0.5'	Total/NA	Solid	5030C	
885-2613-13	BH24-05 2'	Total/NA	Solid	5030C	
MB 885-3040/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3040/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3040/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 3124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-14	BH24-06 0.5'	Total/NA	Solid	5030C	
885-2613-15	BH24-06 2'	Total/NA	Solid	5030C	
885-2613-16	BH24-07 0.5'	Total/NA	Solid	5030C	
885-2613-17	BH24-07 2'	Total/NA	Solid	5030C	
885-2613-18	BH24-08 0.5'	Total/NA	Solid	5030C	
885-2613-19	BH24-08 2'	Total/NA	Solid	5030C	
MB 885-3124/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3124/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3124/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 3180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-1	BH24-01 2'	Total/NA	Solid	8015D	3040
885-2613-2	BH24-02 2'	Total/NA	Solid	8015D	3040
885-2613-3	BH24-03 2'	Total/NA	Solid	8015D	3040
885-2613-4	BH24-04 0.5'	Total/NA	Solid	8015D	3040
885-2613-5	BH24-01 0.5'	Total/NA	Solid	8015D	3040
885-2613-7	BH24-03 0.5'	Total/NA	Solid	8015D	3040
885-2613-8	BH24-04 2'	Total/NA	Solid	8015D	3040
885-2613-9	BH24-04 4'	Total/NA	Solid	8015D	3040
885-2613-10	BH24-04 6'	Total/NA	Solid	8015D	3040
885-2613-11	BH24-04 7'	Total/NA	Solid	8015D	3040
885-2613-12	BH24-05 0.5'	Total/NA	Solid	8015D	3040
885-2613-13	BH24-05 2'	Total/NA	Solid	8015D	3040
MB 885-3040/1-A	Method Blank	Total/NA	Solid	8015D	3040
LCS 885-3040/2-A	Lab Control Sample	Total/NA	Solid	8015D	3040

Analysis Batch: 3181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-1	BH24-01 2'	Total/NA	Solid	8021B	3040
885-2613-2	BH24-02 2'	Total/NA	Solid	8021B	3040
885-2613-3	BH24-03 2'	Total/NA	Solid	8021B	3040

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QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

GC VOA (Continued)

Analysis Batch: 3181 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-4	BH24-04 0.5'	Total/NA	Solid	8021B	3040
885-2613-5	BH24-01 0.5'	Total/NA	Solid	8021B	3040
885-2613-6	BH24-02 0.5'	Total/NA	Solid	8021B	3040
885-2613-7	BH24-03 0.5'	Total/NA	Solid	8021B	3040
885-2613-8	BH24-04 2'	Total/NA	Solid	8021B	3040
885-2613-9	BH24-04 4'	Total/NA	Solid	8021B	3040
885-2613-10	BH24-04 6'	Total/NA	Solid	8021B	3040
885-2613-11	BH24-04 7'	Total/NA	Solid	8021B	3040
885-2613-12	BH24-05 0.5'	Total/NA	Solid	8021B	3040
885-2613-13	BH24-05 2'	Total/NA	Solid	8021B	3040
MB 885-3040/1-A	Method Blank	Total/NA	Solid	8021B	3040
LCS 885-3040/3-A	Lab Control Sample	Total/NA	Solid	8021B	3040

Analysis Batch: 3291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-6	BH24-02 0.5'	Total/NA	Solid	8015D	3040
885-2613-14	BH24-06 0.5'	Total/NA	Solid	8015D	3124
885-2613-15	BH24-06 2'	Total/NA	Solid	8015D	3124
885-2613-16	BH24-07 0.5'	Total/NA	Solid	8015D	3124
885-2613-17	BH24-07 2'	Total/NA	Solid	8015D	3124
885-2613-18	BH24-08 0.5'	Total/NA	Solid	8015D	3124
885-2613-19	BH24-08 2'	Total/NA	Solid	8015D	3124
MB 885-3124/1-A	Method Blank	Total/NA	Solid	8015D	3124
LCS 885-3124/2-A	Lab Control Sample	Total/NA	Solid	8015D	3124

Analysis Batch: 3292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-14	BH24-06 0.5'	Total/NA	Solid	8021B	3124
885-2613-15	BH24-06 2'	Total/NA	Solid	8021B	3124
885-2613-16	BH24-07 0.5'	Total/NA	Solid	8021B	3124
885-2613-17	BH24-07 2'	Total/NA	Solid	8021B	3124
885-2613-18	BH24-08 0.5'	Total/NA	Solid	8021B	3124
885-2613-19	BH24-08 2'	Total/NA	Solid	8021B	3124
MB 885-3124/1-A	Method Blank	Total/NA	Solid	8021B	3124
LCS 885-3124/3-A	Lab Control Sample	Total/NA	Solid	8021B	3124

GC Semi VOA

Prep Batch: 3047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-1	BH24-01 2'	Total/NA	Solid	SHAKE	
885-2613-2	BH24-02 2'	Total/NA	Solid	SHAKE	
885-2613-3	BH24-03 2'	Total/NA	Solid	SHAKE	
885-2613-4	BH24-04 0.5'	Total/NA	Solid	SHAKE	
885-2613-5	BH24-01 0.5'	Total/NA	Solid	SHAKE	
885-2613-6	BH24-02 0.5'	Total/NA	Solid	SHAKE	
885-2613-7	BH24-03 0.5'	Total/NA	Solid	SHAKE	
885-2613-8	BH24-04 2'	Total/NA	Solid	SHAKE	
885-2613-9	BH24-04 4'	Total/NA	Solid	SHAKE	
885-2613-10	BH24-04 6'	Total/NA	Solid	SHAKE	
885-2613-11	BH24-04 7'	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

GC Semi VOA (Continued)

Prep Batch: 3047 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-12	BH24-05 0.5'	Total/NA	Solid	SHAKE	
885-2613-13	BH24-05 2'	Total/NA	Solid	SHAKE	
MB 885-3047/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3047/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-2613-13 MS	BH24-05 2'	Total/NA	Solid	SHAKE	
885-2613-13 MSD	BH24-05 2'	Total/NA	Solid	SHAKE	

Prep Batch: 3140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-14	BH24-06 0.5'	Total/NA	Solid	SHAKE	
885-2613-15	BH24-06 2'	Total/NA	Solid	SHAKE	
885-2613-16	BH24-07 0.5'	Total/NA	Solid	SHAKE	
885-2613-17	BH24-07 2'	Total/NA	Solid	SHAKE	
885-2613-18	BH24-08 0.5'	Total/NA	Solid	SHAKE	
885-2613-19	BH24-08 2'	Total/NA	Solid	SHAKE	
MB 885-3140/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3140/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 3182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-1	BH24-01 2'	Total/NA	Solid	8015D	3047
885-2613-2	BH24-02 2'	Total/NA	Solid	8015D	3047
885-2613-3	BH24-03 2'	Total/NA	Solid	8015D	3047
885-2613-4	BH24-04 0.5'	Total/NA	Solid	8015D	3047
885-2613-5	BH24-01 0.5'	Total/NA	Solid	8015D	3047
885-2613-8	BH24-04 2'	Total/NA	Solid	8015D	3047
885-2613-9	BH24-04 4'	Total/NA	Solid	8015D	3047
885-2613-10	BH24-04 6'	Total/NA	Solid	8015D	3047
885-2613-12	BH24-05 0.5'	Total/NA	Solid	8015D	3047
885-2613-13	BH24-05 2'	Total/NA	Solid	8015D	3047
MB 885-3047/1-A	Method Blank	Total/NA	Solid	8015D	3047
LCS 885-3047/2-A	Lab Control Sample	Total/NA	Solid	8015D	3047
885-2613-13 MS	BH24-05 2'	Total/NA	Solid	8015D	3047
885-2613-13 MSD	BH24-05 2'	Total/NA	Solid	8015D	3047

Analysis Batch: 3263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-6	BH24-02 0.5'	Total/NA	Solid	8015D	3047
885-2613-7	BH24-03 0.5'	Total/NA	Solid	8015D	3047
885-2613-11	BH24-04 7'	Total/NA	Solid	8015D	3047
885-2613-14	BH24-06 0.5'	Total/NA	Solid	8015D	3140
885-2613-15	BH24-06 2'	Total/NA	Solid	8015D	3140
885-2613-16	BH24-07 0.5'	Total/NA	Solid	8015D	3140
885-2613-17	BH24-07 2'	Total/NA	Solid	8015D	3140
885-2613-18	BH24-08 0.5'	Total/NA	Solid	8015D	3140
885-2613-19	BH24-08 2'	Total/NA	Solid	8015D	3140
MB 885-3140/1-A	Method Blank	Total/NA	Solid	8015D	3140
LCS 885-3140/2-A	Lab Control Sample	Total/NA	Solid	8015D	3140

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

HPLC/IC

Leach Batch: 78020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-1	BH24-01 2'	Soluble	Solid	DI Leach	
885-2613-2	BH24-02 2'	Soluble	Solid	DI Leach	
885-2613-3	BH24-03 2'	Soluble	Solid	DI Leach	
885-2613-4	BH24-04 0.5'	Soluble	Solid	DI Leach	
885-2613-5	BH24-01 0.5'	Soluble	Solid	DI Leach	
885-2613-6	BH24-02 0.5'	Soluble	Solid	DI Leach	
885-2613-7	BH24-03 0.5'	Soluble	Solid	DI Leach	
885-2613-8	BH24-04 2'	Soluble	Solid	DI Leach	
885-2613-9	BH24-04 4'	Soluble	Solid	DI Leach	
885-2613-10	BH24-04 6'	Soluble	Solid	DI Leach	
885-2613-11	BH24-04 7'	Soluble	Solid	DI Leach	
885-2613-12	BH24-05 0.5'	Soluble	Solid	DI Leach	
885-2613-13	BH24-05 2'	Soluble	Solid	DI Leach	
885-2613-15	BH24-06 2'	Soluble	Solid	DI Leach	
885-2613-16	BH24-07 0.5'	Soluble	Solid	DI Leach	
885-2613-17	BH24-07 2'	Soluble	Solid	DI Leach	
885-2613-18	BH24-08 0.5'	Soluble	Solid	DI Leach	
885-2613-19	BH24-08 2'	Soluble	Solid	DI Leach	
MB 880-78020/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78020/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78020/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
885-2613-1 MS	BH24-01 2'	Soluble	Solid	DI Leach	
885-2613-1 MSD	BH24-01 2'	Soluble	Solid	DI Leach	
885-2613-11 MS	BH24-04 7'	Soluble	Solid	DI Leach	
885-2613-11 MSD	BH24-04 7'	Soluble	Solid	DI Leach	

Analysis Batch: 78093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-1	BH24-01 2'	Soluble	Solid	300.0	78020
885-2613-2	BH24-02 2'	Soluble	Solid	300.0	78020
885-2613-3	BH24-03 2'	Soluble	Solid	300.0	78020
885-2613-4	BH24-04 0.5'	Soluble	Solid	300.0	78020
885-2613-5	BH24-01 0.5'	Soluble	Solid	300.0	78020
885-2613-6	BH24-02 0.5'	Soluble	Solid	300.0	78020
885-2613-7	BH24-03 0.5'	Soluble	Solid	300.0	78020
885-2613-8	BH24-04 2'	Soluble	Solid	300.0	78020
885-2613-9	BH24-04 4'	Soluble	Solid	300.0	78020
885-2613-10	BH24-04 6'	Soluble	Solid	300.0	78020
885-2613-11	BH24-04 7'	Soluble	Solid	300.0	78020
885-2613-12	BH24-05 0.5'	Soluble	Solid	300.0	78020
885-2613-13	BH24-05 2'	Soluble	Solid	300.0	78020
885-2613-15	BH24-06 2'	Soluble	Solid	300.0	78020
885-2613-16	BH24-07 0.5'	Soluble	Solid	300.0	78020
885-2613-17	BH24-07 2'	Soluble	Solid	300.0	78020
885-2613-18	BH24-08 0.5'	Soluble	Solid	300.0	78020
885-2613-19	BH24-08 2'	Soluble	Solid	300.0	78020
MB 880-78020/1-A	Method Blank	Soluble	Solid	300.0	78020
LCS 880-78020/2-A	Lab Control Sample	Soluble	Solid	300.0	78020
LCSD 880-78020/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78020
885-2613-1 MS	BH24-01 2'	Soluble	Solid	300.0	78020
885-2613-1 MSD	BH24-01 2'	Soluble	Solid	300.0	78020

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QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

HPLC/IC (Continued)

Analysis Batch: 78093 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-11 MS	BH24-04 7'	Soluble	Solid	300.0	78020
885-2613-11 MSD	BH24-04 7'	Soluble	Solid	300.0	78020

Leach Batch: 79018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-14	BH24-06 0.5'	Soluble	Solid	DI Leach	
MB 880-79018/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-79018/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-79018/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 79074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2613-14	BH24-06 0.5'	Soluble	Solid	300.0	79018
MB 880-79018/1-A	Method Blank	Soluble	Solid	300.0	79018
LCS 880-79018/2-A	Lab Control Sample	Soluble	Solid	300.0	79018
LCSD 880-79018/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	79018

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-01 2'

Lab Sample ID: 885-2613-1

Date Collected: 04/04/24 10:40

Matrix: Solid

Date Received: 04/10/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8015D		1	3180	JP	EET ALB	04/11/24 23:13
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8021B		1	3181	JP	EET ALB	04/11/24 23:13
Total/NA	Prep	SHAKE			3047	JU	EET ALB	04/10/24 14:37
Total/NA	Analysis	8015D		1	3182	JU	EET ALB	04/11/24 18:13
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		1	78093	SMC	EET MID	04/13/24 04:50

Client Sample ID: BH24-02 2'

Lab Sample ID: 885-2613-2

Date Collected: 04/04/24 11:10

Matrix: Solid

Date Received: 04/10/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8015D		1	3180	JP	EET ALB	04/11/24 23:37
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8021B		1	3181	JP	EET ALB	04/11/24 23:37
Total/NA	Prep	SHAKE			3047	JU	EET ALB	04/10/24 14:37
Total/NA	Analysis	8015D		1	3182	JU	EET ALB	04/11/24 18:37
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		1	78093	SMC	EET MID	04/13/24 05:04

Client Sample ID: BH24-03 2'

Lab Sample ID: 885-2613-3

Date Collected: 04/04/24 11:40

Matrix: Solid

Date Received: 04/10/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8015D		1	3180	JP	EET ALB	04/12/24 00:01
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8021B		1	3181	JP	EET ALB	04/12/24 00:01
Total/NA	Prep	SHAKE			3047	JU	EET ALB	04/10/24 14:37
Total/NA	Analysis	8015D		1	3182	JU	EET ALB	04/11/24 20:14
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		5	78093	SMC	EET MID	04/13/24 05:09

Client Sample ID: BH24-04 0.5'

Lab Sample ID: 885-2613-4

Date Collected: 04/04/24 12:00

Matrix: Solid

Date Received: 04/10/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8015D		1	3180	JP	EET ALB	04/12/24 00:48

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-04 0.5'

Date Collected: 04/04/24 12:00

Date Received: 04/10/24 07:55

Lab Sample ID: 885-2613-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8021B		1	3181	JP	EET ALB	04/12/24 00:48
Total/NA	Prep	SHAKE			3047	JU	EET ALB	04/10/24 14:37
Total/NA	Analysis	8015D		50	3182	JU	EET ALB	04/11/24 15:01
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		10	78093	SMC	EET MID	04/13/24 05:14

Client Sample ID: BH24-01 0.5'

Date Collected: 04/05/24 09:00

Date Received: 04/10/24 07:55

Lab Sample ID: 885-2613-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8015D		1	3180	JP	EET ALB	04/12/24 01:12
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8021B		1	3181	JP	EET ALB	04/12/24 01:12
Total/NA	Prep	SHAKE			3047	JU	EET ALB	04/10/24 14:37
Total/NA	Analysis	8015D		50	3182	JU	EET ALB	04/11/24 15:25
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		5	78093	SMC	EET MID	04/13/24 05:18

Client Sample ID: BH24-02 0.5'

Date Collected: 04/05/24 09:10

Date Received: 04/10/24 07:55

Lab Sample ID: 885-2613-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8015D		1	3291	JP	EET ALB	04/12/24 17:22
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8021B		1	3181	JP	EET ALB	04/12/24 01:35
Total/NA	Prep	SHAKE			3047	JU	EET ALB	04/10/24 14:37
Total/NA	Analysis	8015D		10	3263	JU	EET ALB	04/12/24 12:46
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		1	78093	SMC	EET MID	04/13/24 05:33

Client Sample ID: BH24-03 0.5'

Date Collected: 04/05/24 09:20

Date Received: 04/10/24 07:55

Lab Sample ID: 885-2613-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8015D		1	3180	JP	EET ALB	04/12/24 01:59
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8021B		1	3181	JP	EET ALB	04/12/24 01:59

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-03 0.5'

Lab Sample ID: 885-2613-7

Date Collected: 04/05/24 09:20

Matrix: Solid

Date Received: 04/10/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			3047	JU	EET ALB	04/10/24 14:37
Total/NA	Analysis	8015D		10	3263	JU	EET ALB	04/12/24 13:34
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		10	78093	SMC	EET MID	04/13/24 05:38

Client Sample ID: BH24-04 2'

Lab Sample ID: 885-2613-8

Date Collected: 04/05/24 09:30

Matrix: Solid

Date Received: 04/10/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8015D		1	3180	JP	EET ALB	04/12/24 02:22
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8021B		1	3181	JP	EET ALB	04/12/24 02:22
Total/NA	Prep	SHAKE			3047	JU	EET ALB	04/10/24 14:37
Total/NA	Analysis	8015D		20	3182	JU	EET ALB	04/11/24 16:37
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		10	78093	SMC	EET MID	04/13/24 05:43

Client Sample ID: BH24-04 4'

Lab Sample ID: 885-2613-9

Date Collected: 04/05/24 09:40

Matrix: Solid

Date Received: 04/10/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8015D		1	3180	JP	EET ALB	04/12/24 02:46
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8021B		1	3181	JP	EET ALB	04/12/24 02:46
Total/NA	Prep	SHAKE			3047	JU	EET ALB	04/10/24 14:37
Total/NA	Analysis	8015D		20	3182	JU	EET ALB	04/11/24 17:25
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		5	78093	SMC	EET MID	04/13/24 05:47

Client Sample ID: BH24-04 6'

Lab Sample ID: 885-2613-10

Date Collected: 04/05/24 09:50

Matrix: Solid

Date Received: 04/10/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8015D		1	3180	JP	EET ALB	04/12/24 03:10
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8021B		1	3181	JP	EET ALB	04/12/24 03:10
Total/NA	Prep	SHAKE			3047	JU	EET ALB	04/10/24 14:37
Total/NA	Analysis	8015D		1	3182	JU	EET ALB	04/11/24 20:38

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-04 6'**Lab Sample ID: 885-2613-10****Date Collected: 04/05/24 09:50****Matrix: Solid****Date Received: 04/10/24 07:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		5	78093	SMC	EET MID	04/13/24 05:52

Client Sample ID: BH24-04 7'**Lab Sample ID: 885-2613-11****Date Collected: 04/05/24 10:00****Matrix: Solid****Date Received: 04/10/24 07:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8015D		1	3180	JP	EET ALB	04/12/24 03:33
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8021B		1	3181	JP	EET ALB	04/12/24 03:33
Total/NA	Prep	SHAKE			3047	JU	EET ALB	04/10/24 14:37
Total/NA	Analysis	8015D		1	3263	JU	EET ALB	04/12/24 14:22
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		10	78093	SMC	EET MID	04/13/24 05:57

Client Sample ID: BH24-05 0.5'**Lab Sample ID: 885-2613-12****Date Collected: 04/05/24 13:00****Matrix: Solid****Date Received: 04/10/24 07:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8015D		1	3180	JP	EET ALB	04/12/24 03:57
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8021B		1	3181	JP	EET ALB	04/12/24 03:57
Total/NA	Prep	SHAKE			3047	JU	EET ALB	04/10/24 14:37
Total/NA	Analysis	8015D		1	3182	JU	EET ALB	04/11/24 21:02
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		10	78093	SMC	EET MID	04/13/24 06:11

Client Sample ID: BH24-05 2'**Lab Sample ID: 885-2613-13****Date Collected: 04/05/24 13:10****Matrix: Solid****Date Received: 04/10/24 07:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8015D		1	3180	JP	EET ALB	04/12/24 04:20
Total/NA	Prep	5030C			3040	JP	EET ALB	04/10/24 12:54
Total/NA	Analysis	8021B		1	3181	JP	EET ALB	04/12/24 04:20
Total/NA	Prep	SHAKE			3047	JU	EET ALB	04/10/24 14:37
Total/NA	Analysis	8015D		1	3182	JU	EET ALB	04/11/24 21:26
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		5	78093	SMC	EET MID	04/13/24 06:16

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-06 0.5'

Lab Sample ID: 885-2613-14

Date Collected: 04/05/24 13:20

Matrix: Solid

Date Received: 04/10/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8015D		1	3291	JP	EET ALB	04/13/24 00:47
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8021B		1	3292	JP	EET ALB	04/13/24 00:47
Total/NA	Prep	SHAKE			3140	JU	EET ALB	04/11/24 14:31
Total/NA	Analysis	8015D		1	3263	JU	EET ALB	04/12/24 20:01
Soluble	Leach	DI Leach			79018	SMC	EET MID	04/23/24 08:42
Soluble	Analysis	300.0		1	79074	SMC	EET MID	04/23/24 18:57

Client Sample ID: BH24-06 2'

Lab Sample ID: 885-2613-15

Date Collected: 04/05/24 13:30

Matrix: Solid

Date Received: 04/10/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8015D		1	3291	JP	EET ALB	04/13/24 01:11
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8021B		1	3292	JP	EET ALB	04/13/24 01:11
Total/NA	Prep	SHAKE			3140	JU	EET ALB	04/11/24 14:31
Total/NA	Analysis	8015D		1	3263	JU	EET ALB	04/12/24 20:25
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		1	78093	SMC	EET MID	04/13/24 06:31

Client Sample ID: BH24-07 0.5'

Lab Sample ID: 885-2613-16

Date Collected: 04/05/24 13:40

Matrix: Solid

Date Received: 04/10/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8015D		1	3291	JP	EET ALB	04/13/24 01:34
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8021B		1	3292	JP	EET ALB	04/13/24 01:34
Total/NA	Prep	SHAKE			3140	JU	EET ALB	04/11/24 14:31
Total/NA	Analysis	8015D		1	3263	JU	EET ALB	04/12/24 15:34
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		1	78093	SMC	EET MID	04/13/24 06:36

Client Sample ID: BH24-07 2'

Lab Sample ID: 885-2613-17

Date Collected: 04/05/24 13:50

Matrix: Solid

Date Received: 04/10/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8015D		1	3291	JP	EET ALB	04/13/24 01:58

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Client Sample ID: BH24-07 2'
Date Collected: 04/05/24 13:50
Date Received: 04/10/24 07:55

Lab Sample ID: 885-2613-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8021B		1	3292	JP	EET ALB	04/13/24 01:58
Total/NA	Prep	SHAKE			3140	JU	EET ALB	04/11/24 14:31
Total/NA	Analysis	8015D		1	3263	JU	EET ALB	04/12/24 20:49
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		1	78093	SMC	EET MID	04/13/24 06:40

Client Sample ID: BH24-08 0.5'
Date Collected: 04/05/24 14:00
Date Received: 04/10/24 07:55

Lab Sample ID: 885-2613-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8015D		1	3291	JP	EET ALB	04/13/24 02:21
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8021B		1	3292	JP	EET ALB	04/13/24 02:21
Total/NA	Prep	SHAKE			3140	JU	EET ALB	04/11/24 14:31
Total/NA	Analysis	8015D		1	3263	JU	EET ALB	04/12/24 21:14
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		1	78093	SMC	EET MID	04/13/24 06:45

Client Sample ID: BH24-08 2'
Date Collected: 04/05/24 14:10
Date Received: 04/10/24 07:55

Lab Sample ID: 885-2613-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8015D		1	3291	JP	EET ALB	04/13/24 02:45
Total/NA	Prep	5030C			3124	JP	EET ALB	04/11/24 13:02
Total/NA	Analysis	8021B		1	3292	JP	EET ALB	04/13/24 02:45
Total/NA	Prep	SHAKE			3140	JU	EET ALB	04/11/24 14:31
Total/NA	Analysis	8015D		1	3263	JU	EET ALB	04/12/24 21:38
Soluble	Leach	DI Leach			78020	SMC	EET MID	04/12/24 10:27
Soluble	Analysis	300.0		1	78093	SMC	EET MID	04/13/24 06:50

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-2613-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-2613-1

Login Number: 2613

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

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

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-2613-1

Login Number: 2613

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 04/12/24 10:57 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 9/3/2025 10:53:22 AM

JOB DESCRIPTION

SDE 31 Fed CTB

JOB NUMBER

885-31726-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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9/3/2025 10:53:22 AM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Vertex
Project/Site: SDE 31 Fed CTB

Laboratory Job ID: 885-31726-1

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Definitions/Glossary

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: SDE 31 Fed CTB

Job ID: 885-31726-1

Job ID: 885-31726-1

Eurofins Albuquerque

Job Narrative 885-31726-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/23/2025 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: The following samples required a dilution due to the nature of the sample matrix: BS25-02 1' (885-31726-3), WS25-02 0-1' (885-31726-4), WS25-04 0-1' (885-31726-8) and WS25-06 0-2.5' (885-31726-12). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: BS25-01 1'

Lab Sample ID: 885-31726-1

Date Collected: 08/21/25 09:00

Matrix: Solid

Date Received: 08/23/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/25/25 09:48	08/28/25 16:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		15 - 150			08/25/25 09:48	08/28/25 16:12	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/25/25 09:48	08/28/25 16:12	1
Ethylbenzene	ND		0.050	mg/Kg		08/25/25 09:48	08/28/25 16:12	1
Toluene	ND		0.050	mg/Kg		08/25/25 09:48	08/28/25 16:12	1
Xylenes, Total	ND		0.099	mg/Kg		08/25/25 09:48	08/28/25 16:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/25/25 09:48	08/28/25 16:12	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	18		9.3	mg/Kg		08/28/25 13:19	08/29/25 12:42	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/28/25 13:19	08/29/25 12:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			08/28/25 13:19	08/29/25 12:42	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		50	mg/Kg		08/25/25 15:07	08/25/25 22:02	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: WS25-01 0-1'

Lab Sample ID: 885-31726-2

Date Collected: 08/21/25 09:10

Matrix: Solid

Date Received: 08/23/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/25/25 09:48	08/28/25 17:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			08/25/25 09:48	08/28/25 17:23	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/25/25 09:48	08/28/25 17:23	1
Ethylbenzene	ND		0.050	mg/Kg		08/25/25 09:48	08/28/25 17:23	1
Toluene	ND		0.050	mg/Kg		08/25/25 09:48	08/28/25 17:23	1
Xylenes, Total	ND		0.10	mg/Kg		08/25/25 09:48	08/28/25 17:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			08/25/25 09:48	08/28/25 17:23	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	580		9.5	mg/Kg		08/28/25 13:19	08/29/25 12:54	1
Motor Oil Range Organics [C28-C40]	660		48	mg/Kg		08/28/25 13:19	08/29/25 12:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			08/28/25 13:19	08/29/25 12:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		50	mg/Kg		08/25/25 15:07	08/25/25 22:56	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: BS25-02 1'

Lab Sample ID: 885-31726-3

Date Collected: 08/21/25 09:20

Matrix: Solid

Date Received: 08/23/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/25/25 09:48	08/28/25 18:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		15 - 150			08/25/25 09:48	08/28/25 18:34	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/25/25 09:48	08/28/25 18:34	1
Ethylbenzene	ND		0.048	mg/Kg		08/25/25 09:48	08/28/25 18:34	1
Toluene	ND		0.048	mg/Kg		08/25/25 09:48	08/28/25 18:34	1
Xylenes, Total	ND		0.096	mg/Kg		08/25/25 09:48	08/28/25 18:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/25/25 09:48	08/28/25 18:34	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	270		97	mg/Kg		08/28/25 13:19	08/29/25 13:28	10
Motor Oil Range Organics [C28-C40]	960		490	mg/Kg		08/28/25 13:19	08/29/25 13:28	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/28/25 13:19	08/29/25 13:28	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	510		49	mg/Kg		08/25/25 15:07	08/25/25 23:07	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: WS25-02 0-1'

Lab Sample ID: 885-31726-4

Date Collected: 08/21/25 09:30

Matrix: Solid

Date Received: 08/23/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		08/25/25 09:48	08/28/25 18:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 150			08/25/25 09:48	08/28/25 18:58	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/25/25 09:48	08/28/25 18:58	1
Ethylbenzene	ND		0.047	mg/Kg		08/25/25 09:48	08/28/25 18:58	1
Toluene	ND		0.047	mg/Kg		08/25/25 09:48	08/28/25 18:58	1
Xylenes, Total	ND		0.095	mg/Kg		08/25/25 09:48	08/28/25 18:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/25/25 09:48	08/28/25 18:58	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1700		99	mg/Kg		08/28/25 13:19	08/29/25 13:40	10
Motor Oil Range Organics [C28-C40]	3000		490	mg/Kg		08/28/25 13:19	08/29/25 13:40	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/28/25 13:19	08/29/25 13:40	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2200		50	mg/Kg		08/25/25 15:07	08/25/25 23:18	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: BS25-03 1'

Lab Sample ID: 885-31726-5

Date Collected: 08/21/25 09:40

Matrix: Solid

Date Received: 08/23/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/25/25 09:48	08/28/25 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			08/25/25 09:48	08/28/25 19:21	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/25/25 09:48	08/28/25 19:21	1
Ethylbenzene	ND		0.050	mg/Kg		08/25/25 09:48	08/28/25 19:21	1
Toluene	ND		0.050	mg/Kg		08/25/25 09:48	08/28/25 19:21	1
Xylenes, Total	ND		0.10	mg/Kg		08/25/25 09:48	08/28/25 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/25/25 09:48	08/28/25 19:21	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		08/28/25 13:19	08/29/25 14:14	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/28/25 13:19	08/29/25 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88		62 - 134			08/28/25 13:19	08/29/25 14:14	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		08/25/25 15:07	08/25/25 23:29	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: WS25-03 0-1'

Lab Sample ID: 885-31726-6

Date Collected: 08/21/25 09:50

Matrix: Solid

Date Received: 08/23/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/25/25 09:48	08/28/25 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			08/25/25 09:48	08/28/25 19:45	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/25/25 09:48	08/28/25 19:45	1
Ethylbenzene	ND		0.049	mg/Kg		08/25/25 09:48	08/28/25 19:45	1
Toluene	ND		0.049	mg/Kg		08/25/25 09:48	08/28/25 19:45	1
Xylenes, Total	ND		0.098	mg/Kg		08/25/25 09:48	08/28/25 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		15 - 150			08/25/25 09:48	08/28/25 19:45	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	210		9.8	mg/Kg		08/28/25 13:19	08/29/25 14:26	1
Motor Oil Range Organics [C28-C40]	320		49	mg/Kg		08/28/25 13:19	08/29/25 14:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			08/28/25 13:19	08/29/25 14:26	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		51	mg/Kg		08/25/25 15:07	08/25/25 23:40	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: BS25-04 1'

Lab Sample ID: 885-31726-7

Date Collected: 08/21/25 10:00

Matrix: Solid

Date Received: 08/23/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/25/25 09:48	08/28/25 20:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 150			08/25/25 09:48	08/28/25 20:09	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/25/25 09:48	08/28/25 20:09	1
Ethylbenzene	ND		0.050	mg/Kg		08/25/25 09:48	08/28/25 20:09	1
Toluene	ND		0.050	mg/Kg		08/25/25 09:48	08/28/25 20:09	1
Xylenes, Total	ND		0.10	mg/Kg		08/25/25 09:48	08/28/25 20:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/25/25 09:48	08/28/25 20:09	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		08/28/25 13:19	08/29/25 15:00	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/28/25 13:19	08/29/25 15:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			08/28/25 13:19	08/29/25 15:00	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230		51	mg/Kg		08/25/25 15:07	08/25/25 23:50	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: WS25-04 0-1'

Lab Sample ID: 885-31726-8

Date Collected: 08/21/25 10:10

Matrix: Solid

Date Received: 08/23/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/25/25 09:48	08/28/25 21:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 150			08/25/25 09:48	08/28/25 21:19	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/25/25 09:48	08/28/25 21:19	1
Ethylbenzene	ND		0.049	mg/Kg		08/25/25 09:48	08/28/25 21:19	1
Toluene	ND		0.049	mg/Kg		08/25/25 09:48	08/28/25 21:19	1
Xylenes, Total	ND		0.099	mg/Kg		08/25/25 09:48	08/28/25 21:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/25/25 09:48	08/28/25 21:19	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	850		97	mg/Kg		08/28/25 13:19	08/29/25 15:23	10
Motor Oil Range Organics [C28-C40]	1600		490	mg/Kg		08/28/25 13:19	08/29/25 15:23	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/28/25 13:19	08/29/25 15:23	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	360		49	mg/Kg		08/26/25 07:45	08/26/25 09:44	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: BS25-05 1'

Lab Sample ID: 885-31726-9

Date Collected: 08/21/25 10:20

Matrix: Solid

Date Received: 08/23/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/25/25 09:48	08/28/25 21:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		15 - 150			08/25/25 09:48	08/28/25 21:43	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/25/25 09:48	08/28/25 21:43	1
Ethylbenzene	ND		0.048	mg/Kg		08/25/25 09:48	08/28/25 21:43	1
Toluene	ND		0.048	mg/Kg		08/25/25 09:48	08/28/25 21:43	1
Xylenes, Total	ND		0.097	mg/Kg		08/25/25 09:48	08/28/25 21:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/25/25 09:48	08/28/25 21:43	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38		9.8	mg/Kg		08/28/25 13:19	08/29/25 15:35	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/28/25 13:19	08/29/25 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			08/28/25 13:19	08/29/25 15:35	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2200		50	mg/Kg		08/26/25 07:45	08/26/25 10:14	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: WS25-05 0-1'

Lab Sample ID: 885-31726-10

Date Collected: 08/21/25 10:30

Matrix: Solid

Date Received: 08/23/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/25/25 09:48	08/28/25 22:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			08/25/25 09:48	08/28/25 22:07	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/25/25 09:48	08/28/25 22:07	1
Ethylbenzene	ND		0.049	mg/Kg		08/25/25 09:48	08/28/25 22:07	1
Toluene	ND		0.049	mg/Kg		08/25/25 09:48	08/28/25 22:07	1
Xylenes, Total	ND		0.097	mg/Kg		08/25/25 09:48	08/28/25 22:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/25/25 09:48	08/28/25 22:07	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	18		9.7	mg/Kg		08/28/25 13:19	08/29/25 15:46	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/28/25 13:19	08/29/25 15:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	78		62 - 134			08/28/25 13:19	08/29/25 15:46	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6900		50	mg/Kg		08/26/25 07:45	08/26/25 10:23	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: BS25-06 2.5'

Lab Sample ID: 885-31726-11

Date Collected: 08/21/25 10:40

Matrix: Solid

Date Received: 08/23/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/25/25 09:48	08/28/25 22:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		15 - 150			08/25/25 09:48	08/28/25 22:30	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/25/25 09:48	08/28/25 22:30	1
Ethylbenzene	ND		0.048	mg/Kg		08/25/25 09:48	08/28/25 22:30	1
Toluene	ND		0.048	mg/Kg		08/25/25 09:48	08/28/25 22:30	1
Xylenes, Total	ND		0.096	mg/Kg		08/25/25 09:48	08/28/25 22:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/25/25 09:48	08/28/25 22:30	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	180		9.8	mg/Kg		08/28/25 13:19	08/29/25 15:58	1
Motor Oil Range Organics [C28-C40]	270		49	mg/Kg		08/28/25 13:19	08/29/25 15:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			08/28/25 13:19	08/29/25 15:58	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4300		50	mg/Kg		08/26/25 07:45	08/26/25 10:33	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: WS25-06 0-2.5'

Lab Sample ID: 885-31726-12

Date Collected: 08/21/25 10:50

Matrix: Solid

Date Received: 08/23/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		08/25/25 09:48	08/28/25 22:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			08/25/25 09:48	08/28/25 22:54	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/25/25 09:48	08/28/25 22:54	1
Ethylbenzene	ND		0.047	mg/Kg		08/25/25 09:48	08/28/25 22:54	1
Toluene	ND		0.047	mg/Kg		08/25/25 09:48	08/28/25 22:54	1
Xylenes, Total	ND		0.094	mg/Kg		08/25/25 09:48	08/28/25 22:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/25/25 09:48	08/28/25 22:54	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	410		97	mg/Kg		08/28/25 13:19	08/29/25 16:33	10
Motor Oil Range Organics [C28-C40]	710		480	mg/Kg		08/28/25 13:19	08/29/25 16:33	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/28/25 13:19	08/29/25 16:33	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5000		51	mg/Kg		08/26/25 07:45	08/26/25 12:52	10

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-33094/1-A

Matrix: Solid

Analysis Batch: 33488

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33094

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/25/25 09:48	08/28/25 15:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		15 - 150			08/25/25 09:48	08/28/25 15:48	1

Lab Sample ID: LCS 885-33094/2-A

Matrix: Solid

Analysis Batch: 33488

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	24.1		mg/Kg		96	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	214		15 - 150				

Lab Sample ID: 885-31726-1 MS

Matrix: Solid

Analysis Batch: 33488

Client Sample ID: BS25-01 1'

Prep Type: Total/NA

Prep Batch: 33094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	24.7		mg/Kg		99	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	216		15 - 150						

Lab Sample ID: 885-31726-1 MSD

Matrix: Solid

Analysis Batch: 33488

Client Sample ID: BS25-01 1'

Prep Type: Total/NA

Prep Batch: 33094

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	22.8		mg/Kg		92	70 - 130	8	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	211		15 - 150								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-33094/1-A

Matrix: Solid

Analysis Batch: 33489

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33094

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/25/25 09:48	08/28/25 15:48	1
Ethylbenzene	ND		0.050	mg/Kg		08/25/25 09:48	08/28/25 15:48	1
Toluene	ND		0.050	mg/Kg		08/25/25 09:48	08/28/25 15:48	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-33094/1-A

Matrix: Solid

Analysis Batch: 33489

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33094

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		08/25/25 09:48	08/28/25 15:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/25/25 09:48	08/28/25 15:48	1

Lab Sample ID: LCS 885-33094/3-A

Matrix: Solid

Analysis Batch: 33489

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.869		mg/Kg		87	70 - 130
Ethylbenzene	1.00	0.857		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	2.00	1.84		mg/Kg		92	70 - 130
o-Xylene	1.00	0.870		mg/Kg		87	70 - 130
Toluene	1.00	0.875		mg/Kg		87	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92		15 - 150				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-33161/1-A

Matrix: Solid

Analysis Batch: 33092

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33161

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		4.9	mg/Kg		08/25/25 15:07	08/25/25 18:36	1

Lab Sample ID: LCS 885-33161/2-A

Matrix: Solid

Analysis Batch: 33092

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.5	50.2		mg/Kg		99	90 - 110

Lab Sample ID: 885-31726-1 MS

Matrix: Solid

Analysis Batch: 33092

Client Sample ID: BS25-01 1'

Prep Type: Total/NA

Prep Batch: 33161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	350		49.7	406	4	mg/Kg		119	50 - 150

Lab Sample ID: MB 885-33185/1-A

Matrix: Solid

Analysis Batch: 33192

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33185

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg		08/26/25 07:45	08/26/25 09:17	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-33185/2-A				Client Sample ID: Lab Control Sample							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 33192				Prep Batch: 33185							
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.7	49.7		mg/Kg		98	90 - 110		

Lab Sample ID: 885-31726-8 MS				Client Sample ID: WS25-04 0-1'							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 33192				Prep Batch: 33185							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	360		49.5	430	4	mg/Kg		136	50 - 150		

Lab Sample ID: 885-31726-8 MSD				Client Sample ID: WS25-04 0-1'							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 33192				Prep Batch: 33185							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	360		50.2	433	4	mg/Kg		140	50 - 150	1	20

QC Association Summary

Client: Vertex

Job ID: 885-31726-1

Project/Site: SDE 31 Fed CTB

GC VOA

Prep Batch: 33094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31726-1	BS25-01 1'	Total/NA	Solid	5030C	
885-31726-2	WS25-01 0-1'	Total/NA	Solid	5030C	
885-31726-3	BS25-02 1'	Total/NA	Solid	5030C	
885-31726-4	WS25-02 0-1'	Total/NA	Solid	5030C	
885-31726-5	BS25-03 1'	Total/NA	Solid	5030C	
885-31726-6	WS25-03 0-1'	Total/NA	Solid	5030C	
885-31726-7	BS25-04 1'	Total/NA	Solid	5030C	
885-31726-8	WS25-04 0-1'	Total/NA	Solid	5030C	
885-31726-9	BS25-05 1'	Total/NA	Solid	5030C	
885-31726-10	WS25-05 0-1'	Total/NA	Solid	5030C	
885-31726-11	BS25-06 2.5'	Total/NA	Solid	5030C	
885-31726-12	WS25-06 0-2.5'	Total/NA	Solid	5030C	
MB 885-33094/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-33094/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-33094/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-31726-1 MS	BS25-01 1'	Total/NA	Solid	5030C	
885-31726-1 MSD	BS25-01 1'	Total/NA	Solid	5030C	

Analysis Batch: 33488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31726-1	BS25-01 1'	Total/NA	Solid	8015M/D	33094
885-31726-2	WS25-01 0-1'	Total/NA	Solid	8015M/D	33094
885-31726-3	BS25-02 1'	Total/NA	Solid	8015M/D	33094
885-31726-4	WS25-02 0-1'	Total/NA	Solid	8015M/D	33094
885-31726-5	BS25-03 1'	Total/NA	Solid	8015M/D	33094
885-31726-6	WS25-03 0-1'	Total/NA	Solid	8015M/D	33094
885-31726-7	BS25-04 1'	Total/NA	Solid	8015M/D	33094
885-31726-8	WS25-04 0-1'	Total/NA	Solid	8015M/D	33094
885-31726-9	BS25-05 1'	Total/NA	Solid	8015M/D	33094
885-31726-10	WS25-05 0-1'	Total/NA	Solid	8015M/D	33094
885-31726-11	BS25-06 2.5'	Total/NA	Solid	8015M/D	33094
885-31726-12	WS25-06 0-2.5'	Total/NA	Solid	8015M/D	33094
MB 885-33094/1-A	Method Blank	Total/NA	Solid	8015M/D	33094
LCS 885-33094/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33094
885-31726-1 MS	BS25-01 1'	Total/NA	Solid	8015M/D	33094
885-31726-1 MSD	BS25-01 1'	Total/NA	Solid	8015M/D	33094

Analysis Batch: 33489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31726-1	BS25-01 1'	Total/NA	Solid	8021B	33094
885-31726-2	WS25-01 0-1'	Total/NA	Solid	8021B	33094
885-31726-3	BS25-02 1'	Total/NA	Solid	8021B	33094
885-31726-4	WS25-02 0-1'	Total/NA	Solid	8021B	33094
885-31726-5	BS25-03 1'	Total/NA	Solid	8021B	33094
885-31726-6	WS25-03 0-1'	Total/NA	Solid	8021B	33094
885-31726-7	BS25-04 1'	Total/NA	Solid	8021B	33094
885-31726-8	WS25-04 0-1'	Total/NA	Solid	8021B	33094
885-31726-9	BS25-05 1'	Total/NA	Solid	8021B	33094
885-31726-10	WS25-05 0-1'	Total/NA	Solid	8021B	33094
885-31726-11	BS25-06 2.5'	Total/NA	Solid	8021B	33094
885-31726-12	WS25-06 0-2.5'	Total/NA	Solid	8021B	33094

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

GC VOA (Continued)

Analysis Batch: 33489 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-33094/1-A	Method Blank	Total/NA	Solid	8021B	33094
LCS 885-33094/3-A	Lab Control Sample	Total/NA	Solid	8021B	33094

GC Semi VOA

Prep Batch: 33478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31726-1	BS25-01 1'	Total/NA	Solid	SHAKE	
885-31726-2	WS25-01 0-1'	Total/NA	Solid	SHAKE	
885-31726-3	BS25-02 1'	Total/NA	Solid	SHAKE	
885-31726-4	WS25-02 0-1'	Total/NA	Solid	SHAKE	
885-31726-5	BS25-03 1'	Total/NA	Solid	SHAKE	
885-31726-6	WS25-03 0-1'	Total/NA	Solid	SHAKE	
885-31726-7	BS25-04 1'	Total/NA	Solid	SHAKE	
885-31726-8	WS25-04 0-1'	Total/NA	Solid	SHAKE	
885-31726-9	BS25-05 1'	Total/NA	Solid	SHAKE	
885-31726-10	WS25-05 0-1'	Total/NA	Solid	SHAKE	
885-31726-11	BS25-06 2.5'	Total/NA	Solid	SHAKE	
885-31726-12	WS25-06 0-2.5'	Total/NA	Solid	SHAKE	

Analysis Batch: 33561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31726-1	BS25-01 1'	Total/NA	Solid	8015M/D	33478
885-31726-2	WS25-01 0-1'	Total/NA	Solid	8015M/D	33478
885-31726-3	BS25-02 1'	Total/NA	Solid	8015M/D	33478
885-31726-4	WS25-02 0-1'	Total/NA	Solid	8015M/D	33478
885-31726-5	BS25-03 1'	Total/NA	Solid	8015M/D	33478
885-31726-6	WS25-03 0-1'	Total/NA	Solid	8015M/D	33478
885-31726-7	BS25-04 1'	Total/NA	Solid	8015M/D	33478
885-31726-8	WS25-04 0-1'	Total/NA	Solid	8015M/D	33478
885-31726-9	BS25-05 1'	Total/NA	Solid	8015M/D	33478
885-31726-10	WS25-05 0-1'	Total/NA	Solid	8015M/D	33478
885-31726-11	BS25-06 2.5'	Total/NA	Solid	8015M/D	33478
885-31726-12	WS25-06 0-2.5'	Total/NA	Solid	8015M/D	33478

HPLC/IC

Analysis Batch: 33092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31726-1	BS25-01 1'	Total/NA	Solid	300.0	33161
885-31726-2	WS25-01 0-1'	Total/NA	Solid	300.0	33161
885-31726-3	BS25-02 1'	Total/NA	Solid	300.0	33161
885-31726-4	WS25-02 0-1'	Total/NA	Solid	300.0	33161
885-31726-5	BS25-03 1'	Total/NA	Solid	300.0	33161
885-31726-6	WS25-03 0-1'	Total/NA	Solid	300.0	33161
885-31726-7	BS25-04 1'	Total/NA	Solid	300.0	33161
MB 885-33161/1-A	Method Blank	Total/NA	Solid	300.0	33161
LCS 885-33161/2-A	Lab Control Sample	Total/NA	Solid	300.0	33161
885-31726-1 MS	BS25-01 1'	Total/NA	Solid	300.0	33161

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

HPLC/IC

Prep Batch: 33161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31726-1	BS25-01 1'	Total/NA	Solid	300_Prep	
885-31726-2	WS25-01 0-1'	Total/NA	Solid	300_Prep	
885-31726-3	BS25-02 1'	Total/NA	Solid	300_Prep	
885-31726-4	WS25-02 0-1'	Total/NA	Solid	300_Prep	
885-31726-5	BS25-03 1'	Total/NA	Solid	300_Prep	
885-31726-6	WS25-03 0-1'	Total/NA	Solid	300_Prep	
885-31726-7	BS25-04 1'	Total/NA	Solid	300_Prep	
MB 885-33161/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-33161/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-31726-1 MS	BS25-01 1'	Total/NA	Solid	300_Prep	

Prep Batch: 33185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31726-8	WS25-04 0-1'	Total/NA	Solid	300_Prep	
885-31726-9	BS25-05 1'	Total/NA	Solid	300_Prep	
885-31726-10	WS25-05 0-1'	Total/NA	Solid	300_Prep	
885-31726-11	BS25-06 2.5'	Total/NA	Solid	300_Prep	
885-31726-12	WS25-06 0-2.5'	Total/NA	Solid	300_Prep	
MB 885-33185/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-33185/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-31726-8 MS	WS25-04 0-1'	Total/NA	Solid	300_Prep	
885-31726-8 MSD	WS25-04 0-1'	Total/NA	Solid	300_Prep	

Analysis Batch: 33192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31726-8	WS25-04 0-1'	Total/NA	Solid	300.0	33185
885-31726-9	BS25-05 1'	Total/NA	Solid	300.0	33185
885-31726-10	WS25-05 0-1'	Total/NA	Solid	300.0	33185
885-31726-11	BS25-06 2.5'	Total/NA	Solid	300.0	33185
885-31726-12	WS25-06 0-2.5'	Total/NA	Solid	300.0	33185
MB 885-33185/1-A	Method Blank	Total/NA	Solid	300.0	33185
LCS 885-33185/2-A	Lab Control Sample	Total/NA	Solid	300.0	33185
885-31726-8 MS	WS25-04 0-1'	Total/NA	Solid	300.0	33185
885-31726-8 MSD	WS25-04 0-1'	Total/NA	Solid	300.0	33185

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: BS25-01 1'

Lab Sample ID: 885-31726-1

Date Collected: 08/21/25 09:00

Matrix: Solid

Date Received: 08/23/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 16:12
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 16:12
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 12:42
Total/NA	Prep	300_Prep			33161	MA	EET ALB	08/25/25 15:07
Total/NA	Analysis	300.0		10	33092	MA	EET ALB	08/25/25 22:02

Client Sample ID: WS25-01 0-1'

Lab Sample ID: 885-31726-2

Date Collected: 08/21/25 09:10

Matrix: Solid

Date Received: 08/23/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 17:23
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 17:23
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 12:54
Total/NA	Prep	300_Prep			33161	MA	EET ALB	08/25/25 15:07
Total/NA	Analysis	300.0		10	33092	MA	EET ALB	08/25/25 22:56

Client Sample ID: BS25-02 1'

Lab Sample ID: 885-31726-3

Date Collected: 08/21/25 09:20

Matrix: Solid

Date Received: 08/23/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 18:34
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 18:34
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		10	33561	EM	EET ALB	08/29/25 13:28
Total/NA	Prep	300_Prep			33161	MA	EET ALB	08/25/25 15:07
Total/NA	Analysis	300.0		10	33092	MA	EET ALB	08/25/25 23:07

Client Sample ID: WS25-02 0-1'

Lab Sample ID: 885-31726-4

Date Collected: 08/21/25 09:30

Matrix: Solid

Date Received: 08/23/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 18:58

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: WS25-02 0-1'

Lab Sample ID: 885-31726-4

Date Collected: 08/21/25 09:30

Matrix: Solid

Date Received: 08/23/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 18:58
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		10	33561	EM	EET ALB	08/29/25 13:40
Total/NA	Prep	300_Prep			33161	MA	EET ALB	08/25/25 15:07
Total/NA	Analysis	300.0		10	33092	MA	EET ALB	08/25/25 23:18

Client Sample ID: BS25-03 1'

Lab Sample ID: 885-31726-5

Date Collected: 08/21/25 09:40

Matrix: Solid

Date Received: 08/23/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 19:21
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 19:21
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 14:14
Total/NA	Prep	300_Prep			33161	MA	EET ALB	08/25/25 15:07
Total/NA	Analysis	300.0		10	33092	MA	EET ALB	08/25/25 23:29

Client Sample ID: WS25-03 0-1'

Lab Sample ID: 885-31726-6

Date Collected: 08/21/25 09:50

Matrix: Solid

Date Received: 08/23/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 19:45
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 19:45
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 14:26
Total/NA	Prep	300_Prep			33161	MA	EET ALB	08/25/25 15:07
Total/NA	Analysis	300.0		10	33092	MA	EET ALB	08/25/25 23:40

Client Sample ID: BS25-04 1'

Lab Sample ID: 885-31726-7

Date Collected: 08/21/25 10:00

Matrix: Solid

Date Received: 08/23/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 20:09
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 20:09

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: BS25-04 1'
Date Collected: 08/21/25 10:00
Date Received: 08/23/25 07:45

Lab Sample ID: 885-31726-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 15:00
Total/NA	Prep	300_Prep			33161	MA	EET ALB	08/25/25 15:07
Total/NA	Analysis	300.0		10	33092	MA	EET ALB	08/25/25 23:50

Client Sample ID: WS25-04 0-1'
Date Collected: 08/21/25 10:10
Date Received: 08/23/25 07:45

Lab Sample ID: 885-31726-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 21:19
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 21:19
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		10	33561	EM	EET ALB	08/29/25 15:23
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 09:44

Client Sample ID: BS25-05 1'
Date Collected: 08/21/25 10:20
Date Received: 08/23/25 07:45

Lab Sample ID: 885-31726-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 21:43
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 21:43
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 15:35
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 10:14

Client Sample ID: WS25-05 0-1'
Date Collected: 08/21/25 10:30
Date Received: 08/23/25 07:45

Lab Sample ID: 885-31726-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 22:07
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 22:07
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 15:46

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Client Sample ID: WS25-05 0-1'
Date Collected: 08/21/25 10:30
Date Received: 08/23/25 07:45

Lab Sample ID: 885-31726-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 10:23

Client Sample ID: BS25-06 2.5'
Date Collected: 08/21/25 10:40
Date Received: 08/23/25 07:45

Lab Sample ID: 885-31726-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 22:30
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 22:30
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 15:58
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 10:33

Client Sample ID: WS25-06 0-2.5'
Date Collected: 08/21/25 10:50
Date Received: 08/23/25 07:45

Lab Sample ID: 885-31726-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 22:54
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 22:54
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		10	33561	EM	EET ALB	08/29/25 16:33
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 12:52

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31726-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-31726-1

Login Number: 31726

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 9/4/2025 3:53:20 PM

JOB DESCRIPTION

SDE 31 Fed CTB

JOB NUMBER

885-31811-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
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Client: Vertex
Project/Site: SDE 31 Fed CTB

Laboratory Job ID: 885-31811-1

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Definitions/Glossary

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: SDE 31 Fed CTB

Job ID: 885-31811-1

Job ID: 885-31811-1

Eurofins Albuquerque

Job Narrative 885-31811-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/26/2025 7:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

Gasoline Range Organics

Method 8015D_GRO: Surrogate recovery for the following sample was outside control limits: BS25-08 0.5' (885-31811-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: The following samples were diluted due to the nature of the sample matrix OR abundance of target analytes: BS25-07 0.5' (885-31811-1) and BS25-08 0.5' (885-31811-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8015D_DRO: The following samples required a dilution due to the nature of the sample matrix: BS25-16 0.5' (885-31811-10), WS25-07 0-2' (885-31811-11), WS25-08 0-0.5' (885-31811-12) and WS25-09 0-0.5' (885-31811-13). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015D_DRO: The following samples were diluted due to the nature of the sample matrix: BS25-12 0.5' (885-31811-6), BS25-13 0.5' (885-31811-7) and BS25-15 2' (885-31811-9). Elevated reporting limits (RLs) are provided.

Method 8015D_DRO: The following samples were diluted due to abundance of target analytes : BS25-10 0.5' (885-31811-4) and BS25-11 0.5' (885-31811-5). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-07 0.5'

Lab Sample ID: 885-31811-1

Date Collected: 08/22/25 13:00

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/26/25 12:48	08/28/25 02:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			08/26/25 12:48	08/28/25 02:26	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/26/25 12:48	08/28/25 02:26	1
Ethylbenzene	ND		0.048	mg/Kg		08/26/25 12:48	08/28/25 02:26	1
Toluene	ND		0.048	mg/Kg		08/26/25 12:48	08/28/25 02:26	1
Xylenes, Total	ND		0.095	mg/Kg		08/26/25 12:48	08/28/25 02:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/26/25 12:48	08/28/25 02:26	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1400		97	mg/Kg		08/28/25 07:23	08/28/25 12:46	10
Motor Oil Range Organics [C28-C40]	780		480	mg/Kg		08/28/25 07:23	08/28/25 12:46	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/28/25 07:23	08/28/25 12:46	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6300		50	mg/Kg		08/27/25 07:11	08/27/25 09:21	10

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Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-08 0.5'

Lab Sample ID: 885-31811-2

Date Collected: 08/22/25 13:10

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	70		4.8	mg/Kg		08/26/25 12:48	08/28/25 02:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	238	S1+	15 - 150			08/26/25 12:48	08/28/25 02:49	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/26/25 12:48	08/28/25 02:49	1
Ethylbenzene	0.060		0.048	mg/Kg		08/26/25 12:48	08/28/25 02:49	1
Toluene	ND		0.048	mg/Kg		08/26/25 12:48	08/28/25 02:49	1
Xylenes, Total	ND		0.096	mg/Kg		08/26/25 12:48	08/28/25 02:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		15 - 150			08/26/25 12:48	08/28/25 02:49	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4600		97	mg/Kg		08/28/25 07:23	08/28/25 13:23	10
Motor Oil Range Organics [C28-C40]	2700		480	mg/Kg		08/28/25 07:23	08/28/25 13:23	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/28/25 07:23	08/28/25 13:23	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10000		100	mg/Kg		08/27/25 07:11	08/28/25 15:07	20

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Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-09 2'

Lab Sample ID: 885-31811-3

Date Collected: 08/22/25 13:20

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		08/26/25 12:48	08/28/25 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		15 - 150			08/26/25 12:48	08/28/25 14:14	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/26/25 12:48	08/28/25 14:14	1
Ethylbenzene	ND		0.047	mg/Kg		08/26/25 12:48	08/28/25 14:14	1
Toluene	ND		0.047	mg/Kg		08/26/25 12:48	08/28/25 14:14	1
Xylenes, Total	ND		0.093	mg/Kg		08/26/25 12:48	08/28/25 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/26/25 12:48	08/28/25 14:14	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		08/28/25 07:23	08/28/25 15:43	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		08/28/25 07:23	08/28/25 15:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			08/28/25 07:23	08/28/25 15:43	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280		50	mg/Kg		08/27/25 07:11	08/27/25 10:42	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-10 0.5'

Lab Sample ID: 885-31811-4

Date Collected: 08/22/25 13:30

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21		4.9	mg/Kg		08/26/25 12:48	08/28/25 03:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149		15 - 150			08/26/25 12:48	08/28/25 03:37	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/26/25 12:48	08/28/25 03:37	1
Ethylbenzene	ND		0.049	mg/Kg		08/26/25 12:48	08/28/25 03:37	1
Toluene	ND		0.049	mg/Kg		08/26/25 12:48	08/28/25 03:37	1
Xylenes, Total	ND		0.097	mg/Kg		08/26/25 12:48	08/28/25 03:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/26/25 12:48	08/28/25 03:37	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3600		190	mg/Kg		09/02/25 12:09	09/03/25 12:25	20
Motor Oil Range Organics [C28-C40]	2200		930	mg/Kg		09/02/25 12:09	09/03/25 12:25	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			09/02/25 12:09	09/03/25 12:25	20

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5000		50	mg/Kg		08/27/25 07:11	08/27/25 10:56	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-11 0.5'

Lab Sample ID: 885-31811-5

Date Collected: 08/22/25 13:40

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/26/25 12:48	08/28/25 14:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138		15 - 150			08/26/25 12:48	08/28/25 14:37	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/26/25 12:48	08/28/25 14:37	1
Ethylbenzene	ND		0.048	mg/Kg		08/26/25 12:48	08/28/25 14:37	1
Toluene	ND		0.048	mg/Kg		08/26/25 12:48	08/28/25 14:37	1
Xylenes, Total	ND		0.096	mg/Kg		08/26/25 12:48	08/28/25 14:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/26/25 12:48	08/28/25 14:37	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3500		95	mg/Kg		09/02/25 12:09	09/03/25 22:41	10
Motor Oil Range Organics [C28-C40]	1600		480	mg/Kg		09/02/25 12:09	09/03/25 22:41	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			09/02/25 12:09	09/03/25 22:41	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	730		50	mg/Kg		08/27/25 07:11	08/27/25 11:37	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-12 0.5'

Lab Sample ID: 885-31811-6

Date Collected: 08/22/25 13:50

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/26/25 12:48	08/28/25 04:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		15 - 150			08/26/25 12:48	08/28/25 04:24	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/26/25 12:48	08/28/25 04:24	1
Ethylbenzene	ND		0.048	mg/Kg		08/26/25 12:48	08/28/25 04:24	1
Toluene	ND		0.048	mg/Kg		08/26/25 12:48	08/28/25 04:24	1
Xylenes, Total	ND		0.097	mg/Kg		08/26/25 12:48	08/28/25 04:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/26/25 12:48	08/28/25 04:24	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3100		99	mg/Kg		09/02/25 12:09	09/03/25 11:45	10
Motor Oil Range Organics [C28-C40]	1300		500	mg/Kg		09/02/25 12:09	09/03/25 11:45	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			09/02/25 12:09	09/03/25 11:45	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4100		50	mg/Kg		08/27/25 07:11	08/27/25 11:50	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-13 0.5'

Lab Sample ID: 885-31811-7

Date Collected: 08/22/25 14:00

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/26/25 12:48	08/28/25 04:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		15 - 150			08/26/25 12:48	08/28/25 04:48	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/26/25 12:48	08/28/25 04:48	1
Ethylbenzene	ND		0.048	mg/Kg		08/26/25 12:48	08/28/25 04:48	1
Toluene	ND		0.048	mg/Kg		08/26/25 12:48	08/28/25 04:48	1
Xylenes, Total	ND		0.097	mg/Kg		08/26/25 12:48	08/28/25 04:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			08/26/25 12:48	08/28/25 04:48	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	670		20	mg/Kg		09/02/25 12:09	09/04/25 14:50	2
Motor Oil Range Organics [C28-C40]	530		98	mg/Kg		09/02/25 12:09	09/04/25 14:50	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			09/02/25 12:09	09/04/25 14:50	2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		50	mg/Kg		08/27/25 07:11	08/27/25 12:04	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-14 0.5'

Lab Sample ID: 885-31811-8

Date Collected: 08/22/25 14:10

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/26/25 12:48	08/28/25 05:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		15 - 150			08/26/25 12:48	08/28/25 05:12	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/26/25 12:48	08/28/25 05:12	1
Ethylbenzene	ND		0.050	mg/Kg		08/26/25 12:48	08/28/25 05:12	1
Toluene	ND		0.050	mg/Kg		08/26/25 12:48	08/28/25 05:12	1
Xylenes, Total	ND		0.10	mg/Kg		08/26/25 12:48	08/28/25 05:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/26/25 12:48	08/28/25 05:12	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	90		9.8	mg/Kg		09/02/25 12:09	09/03/25 12:07	1
Motor Oil Range Organics [C28-C40]	60		49	mg/Kg		09/02/25 12:09	09/03/25 12:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			09/02/25 12:09	09/03/25 12:07	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		50	mg/Kg		08/27/25 07:11	08/27/25 12:18	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-15 2'

Lab Sample ID: 885-31811-9

Date Collected: 08/22/25 14:20

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/26/25 12:48	08/28/25 05:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			08/26/25 12:48	08/28/25 05:36	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/26/25 12:48	08/28/25 05:36	1
Ethylbenzene	ND		0.049	mg/Kg		08/26/25 12:48	08/28/25 05:36	1
Toluene	ND		0.049	mg/Kg		08/26/25 12:48	08/28/25 05:36	1
Xylenes, Total	ND		0.098	mg/Kg		08/26/25 12:48	08/28/25 05:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/26/25 12:48	08/28/25 05:36	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	320		96	mg/Kg		09/02/25 12:09	09/03/25 12:19	10
Motor Oil Range Organics [C28-C40]	550		480	mg/Kg		09/02/25 12:09	09/03/25 12:19	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			09/02/25 12:09	09/03/25 12:19	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	990		50	mg/Kg		08/27/25 07:11	08/27/25 12:31	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-16 0.5'

Lab Sample ID: 885-31811-10

Date Collected: 08/22/25 14:30

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/26/25 15:51	08/27/25 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		15 - 150			08/26/25 15:51	08/27/25 14:12	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/26/25 15:51	08/27/25 14:12	1
Ethylbenzene	ND		0.050	mg/Kg		08/26/25 15:51	08/27/25 14:12	1
Toluene	ND		0.050	mg/Kg		08/26/25 15:51	08/27/25 14:12	1
Xylenes, Total	ND		0.10	mg/Kg		08/26/25 15:51	08/27/25 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/26/25 15:51	08/27/25 14:12	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	790		96	mg/Kg		08/28/25 07:23	08/28/25 18:37	10
Motor Oil Range Organics [C28-C40]	1100		480	mg/Kg		08/28/25 07:23	08/28/25 18:37	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/28/25 07:23	08/28/25 18:37	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5400		51	mg/Kg		08/27/25 07:11	08/27/25 12:45	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: WS25-07 0-2'

Lab Sample ID: 885-31811-11

Date Collected: 08/22/25 14:40

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/26/25 15:51	08/27/25 15:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		15 - 150			08/26/25 15:51	08/27/25 15:23	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/26/25 15:51	08/27/25 15:23	1
Ethylbenzene	ND		0.050	mg/Kg		08/26/25 15:51	08/27/25 15:23	1
Toluene	ND		0.050	mg/Kg		08/26/25 15:51	08/27/25 15:23	1
Xylenes, Total	ND		0.099	mg/Kg		08/26/25 15:51	08/27/25 15:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/26/25 15:51	08/27/25 15:23	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	860		97	mg/Kg		08/28/25 07:23	08/28/25 19:14	10
Motor Oil Range Organics [C28-C40]	1100		480	mg/Kg		08/28/25 07:23	08/28/25 19:14	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/28/25 07:23	08/28/25 19:14	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9200		100	mg/Kg		08/27/25 07:11	08/28/25 15:17	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: WS25-08 0-0.5'

Lab Sample ID: 885-31811-12

Date Collected: 08/22/25 14:50

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/26/25 15:51	08/27/25 16:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 150			08/26/25 15:51	08/27/25 16:34	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/26/25 15:51	08/27/25 16:34	1
Ethylbenzene	ND		0.048	mg/Kg		08/26/25 15:51	08/27/25 16:34	1
Toluene	ND		0.048	mg/Kg		08/26/25 15:51	08/27/25 16:34	1
Xylenes, Total	ND		0.095	mg/Kg		08/26/25 15:51	08/27/25 16:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/26/25 15:51	08/27/25 16:34	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	920		93	mg/Kg		08/28/25 07:23	08/28/25 19:51	10
Motor Oil Range Organics [C28-C40]	1100		470	mg/Kg		08/28/25 07:23	08/28/25 19:51	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/28/25 07:23	08/28/25 19:51	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6200		50	mg/Kg		08/27/25 07:11	08/27/25 13:12	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-31811-1

Project/Site: SDE 31 Fed CTB

Client Sample ID: WS25-09 0-0.5'

Lab Sample ID: 885-31811-13

Date Collected: 08/22/25 15:00

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/26/25 15:51	08/27/25 16:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		15 - 150			08/26/25 15:51	08/27/25 16:58	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/26/25 15:51	08/27/25 16:58	1
Ethylbenzene	ND		0.048	mg/Kg		08/26/25 15:51	08/27/25 16:58	1
Toluene	ND		0.048	mg/Kg		08/26/25 15:51	08/27/25 16:58	1
Xylenes, Total	ND		0.096	mg/Kg		08/26/25 15:51	08/27/25 16:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/26/25 15:51	08/27/25 16:58	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2600		98	mg/Kg		08/28/25 07:23	08/28/25 20:40	10
Motor Oil Range Organics [C28-C40]	2100		490	mg/Kg		08/28/25 07:23	08/28/25 20:40	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/28/25 07:23	08/28/25 20:40	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6200		49	mg/Kg		08/27/25 07:11	08/27/25 13:26	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: WS25-10 0-0.5'

Lab Sample ID: 885-31811-14

Date Collected: 08/22/25 15:10

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/26/25 15:51	08/27/25 17:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		15 - 150			08/26/25 15:51	08/27/25 17:22	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/26/25 15:51	08/27/25 17:22	1
Ethylbenzene	ND		0.050	mg/Kg		08/26/25 15:51	08/27/25 17:22	1
Toluene	ND		0.050	mg/Kg		08/26/25 15:51	08/27/25 17:22	1
Xylenes, Total	ND		0.10	mg/Kg		08/26/25 15:51	08/27/25 17:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			08/26/25 15:51	08/27/25 17:22	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	100		9.2	mg/Kg		08/28/25 07:23	08/29/25 12:13	1
Motor Oil Range Organics [C28-C40]	190		46	mg/Kg		08/28/25 07:23	08/29/25 12:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			08/28/25 07:23	08/29/25 12:13	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6400		50	mg/Kg		08/27/25 07:11	08/27/25 13:40	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: WS25-11 0-0.5'

Lab Sample ID: 885-31811-15

Date Collected: 08/22/25 15:20

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		08/26/25 15:51	08/27/25 17:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		15 - 150			08/26/25 15:51	08/27/25 17:45	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/26/25 15:51	08/27/25 17:45	1
Ethylbenzene	ND		0.047	mg/Kg		08/26/25 15:51	08/27/25 17:45	1
Toluene	ND		0.047	mg/Kg		08/26/25 15:51	08/27/25 17:45	1
Xylenes, Total	ND		0.095	mg/Kg		08/26/25 15:51	08/27/25 17:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/26/25 15:51	08/27/25 17:45	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	28		9.0	mg/Kg		08/28/25 07:23	08/29/25 12:50	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		08/28/25 07:23	08/29/25 12:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			08/28/25 07:23	08/29/25 12:50	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6200		50	mg/Kg		08/27/25 07:11	08/27/25 14:20	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-31811-1

Project/Site: SDE 31 Fed CTB

Client Sample ID: WS25-12 0-2'

Lab Sample ID: 885-31811-16

Date Collected: 08/22/25 15:30

Matrix: Solid

Date Received: 08/26/25 07:40

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/26/25 15:51	08/27/25 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		15 - 150			08/26/25 15:51	08/27/25 18:09	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/26/25 15:51	08/27/25 18:09	1
Ethylbenzene	ND		0.049	mg/Kg		08/26/25 15:51	08/27/25 18:09	1
Toluene	ND		0.049	mg/Kg		08/26/25 15:51	08/27/25 18:09	1
Xylenes, Total	ND		0.098	mg/Kg		08/26/25 15:51	08/27/25 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/26/25 15:51	08/27/25 18:09	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	200		9.9	mg/Kg		08/28/25 07:23	08/29/25 13:26	1
Motor Oil Range Organics [C28-C40]	340		49	mg/Kg		08/28/25 07:23	08/29/25 13:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113		62 - 134			08/28/25 07:23	08/29/25 13:26	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5000		50	mg/Kg		08/27/25 07:11	08/27/25 14:34	10

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-33231/1-A

Matrix: Solid

Analysis Batch: 33416

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33231

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/26/25 12:48	08/27/25 19:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		15 - 150			08/26/25 12:48	08/27/25 19:44	1

Lab Sample ID: LCS 885-33231/2-A

Matrix: Solid

Analysis Batch: 33416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	25.7		mg/Kg		103	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	223		15 - 150				

Lab Sample ID: MB 885-33274/1-A

Matrix: Solid

Analysis Batch: 33351

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33274

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/26/25 15:51	08/27/25 13:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		15 - 150			08/26/25 15:51	08/27/25 13:48	1

Lab Sample ID: LCS 885-33274/2-A

Matrix: Solid

Analysis Batch: 33351

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	26.1		mg/Kg		104	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	226		15 - 150				

Lab Sample ID: 885-31811-10 MS

Matrix: Solid

Analysis Batch: 33351

Client Sample ID: BS25-16 0.5'

Prep Type: Total/NA

Prep Batch: 33274

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	30.7		mg/Kg		124	70 - 130

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-31811-10 MS

Matrix: Solid

Analysis Batch: 33351

Client Sample ID: BS25-16 0.5'

Prep Type: Total/NA

Prep Batch: 33274

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	237		15 - 150

Lab Sample ID: 885-31811-10 MSD

Matrix: Solid

Analysis Batch: 33351

Client Sample ID: BS25-16 0.5'

Prep Type: Total/NA

Prep Batch: 33274

	Sample	Sample	Spike	MSD	MSD				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	30.7		mg/Kg		124	70 - 130	0

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	247	S1+	15 - 150

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-33231/1-A

Matrix: Solid

Analysis Batch: 33415

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33231

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	ND		0.025	mg/Kg		08/26/25 12:48	08/27/25 19:44	1	
Ethylbenzene	ND		0.050	mg/Kg		08/26/25 12:48	08/27/25 19:44	1	
Toluene	ND		0.050	mg/Kg		08/26/25 12:48	08/27/25 19:44	1	
Xylenes, Total	ND		0.10	mg/Kg		08/26/25 12:48	08/27/25 19:44	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	87		15 - 150	08/26/25 12:48	08/27/25 19:44	1			

Lab Sample ID: LCS 885-33231/3-A

Matrix: Solid

Analysis Batch: 33415

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33231

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	1.00	0.914		mg/Kg		91	70 - 130		
Ethylbenzene	1.00	0.898		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene	2.00	1.88		mg/Kg		94	70 - 130		
o-Xylene	1.00	0.880		mg/Kg		88	70 - 130		
Toluene	1.00	0.901		mg/Kg		90	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		15 - 150

Lab Sample ID: MB 885-33274/1-A

Matrix: Solid

Analysis Batch: 33352

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33274

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	ND		0.025	mg/Kg		08/26/25 15:51	08/27/25 13:48	1	

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QC Sample Results

Client: Vertex

Job ID: 885-31811-1

Project/Site: SDE 31 Fed CTB

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-33274/1-A

Matrix: Solid

Analysis Batch: 33352

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33274

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Ethylbenzene	ND		0.050	mg/Kg		08/26/25 15:51	08/27/25 13:48	1
Toluene	ND		0.050	mg/Kg		08/26/25 15:51	08/27/25 13:48	1
Xylenes, Total	ND		0.10	mg/Kg		08/26/25 15:51	08/27/25 13:48	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	91		15 - 150			08/26/25 15:51	08/27/25 13:48	1

Lab Sample ID: LCS 885-33274/3-A

Matrix: Solid

Analysis Batch: 33352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33274

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	1.00	0.965		mg/Kg		97	70 - 130
Ethylbenzene	1.00	0.958		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	2.00	2.01		mg/Kg		101	70 - 130
o-Xylene	1.00	0.953		mg/Kg		95	70 - 130
Toluene	1.00	0.978		mg/Kg		98	70 - 130
Surrogate	LCS	LCS	Limits			%Recovery	Qualifier
	%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	93		15 - 150				

Lab Sample ID: 885-31811-11 MS

Matrix: Solid

Analysis Batch: 33352

Client Sample ID: WS25-07 0-2'

Prep Type: Total/NA

Prep Batch: 33274

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	ND		0.995	1.02		mg/Kg		102	70 - 130
Ethylbenzene	ND		0.995	1.03		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	ND		1.99	2.19		mg/Kg		110	70 - 130
o-Xylene	ND		0.995	1.02		mg/Kg		103	70 - 130
Toluene	ND		0.995	1.04		mg/Kg		105	70 - 130
Surrogate	MS	MS	Limits			%Recovery	Qualifier	RPD	Limit
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	91		15 - 150						

Lab Sample ID: 885-31811-11 MSD

Matrix: Solid

Analysis Batch: 33352

Client Sample ID: WS25-07 0-2'

Prep Type: Total/NA

Prep Batch: 33274

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	ND		0.999	1.07		mg/Kg		107	70 - 130	5	20
Ethylbenzene	ND		0.999	1.09		mg/Kg		109	70 - 130	6	20
m-Xylene & p-Xylene	ND		2.00	2.30		mg/Kg		115	70 - 130	5	20
o-Xylene	ND		0.999	1.10		mg/Kg		110	70 - 130	7	20
Toluene	ND		0.999	1.10		mg/Kg		110	70 - 130	5	20

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-31811-11 MSD

Matrix: Solid

Analysis Batch: 33352

Client Sample ID: WS25-07 0-2'

Prep Type: Total/NA

Prep Batch: 33274

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		15 - 150

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-33434/1-A

Matrix: Solid

Analysis Batch: 33441

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33434

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		08/28/25 07:23	08/28/25 12:22	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/28/25 07:23	08/28/25 12:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			08/28/25 07:23	08/28/25 12:22	1

Lab Sample ID: LCS 885-33434/2-A

Matrix: Solid

Analysis Batch: 33441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	48.4		mg/Kg		97	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	95		62 - 134				

Lab Sample ID: MB 885-33717/1-A

Matrix: Solid

Analysis Batch: 33782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33717

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/02/25 12:08	09/03/25 11:38	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/02/25 12:08	09/03/25 11:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113		62 - 134			09/02/25 12:08	09/03/25 11:38	1

Lab Sample ID: LCS 885-33717/2-A

Matrix: Solid

Analysis Batch: 33782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	57.3		mg/Kg		115	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	121		62 - 134				

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-33301/1-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 33303					Prep Batch: 33301				
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		5.0	mg/Kg		08/27/25 07:11	08/27/25 08:39	1	

Lab Sample ID: LCS 885-33301/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 33303					Prep Batch: 33301				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	50.2	48.7		mg/Kg		97	90 - 110		

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

GC VOA

Prep Batch: 33231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-1	BS25-07 0.5'	Total/NA	Solid	5030C	
885-31811-2	BS25-08 0.5'	Total/NA	Solid	5030C	
885-31811-3	BS25-09 2'	Total/NA	Solid	5030C	
885-31811-4	BS25-10 0.5'	Total/NA	Solid	5030C	
885-31811-5	BS25-11 0.5'	Total/NA	Solid	5030C	
885-31811-6	BS25-12 0.5'	Total/NA	Solid	5030C	
885-31811-7	BS25-13 0.5'	Total/NA	Solid	5030C	
885-31811-8	BS25-14 0.5'	Total/NA	Solid	5030C	
885-31811-9	BS25-15 2'	Total/NA	Solid	5030C	
MB 885-33231/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-33231/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-33231/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 33274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-10	BS25-16 0.5'	Total/NA	Solid	5030C	
885-31811-11	WS25-07 0-2'	Total/NA	Solid	5030C	
885-31811-12	WS25-08 0-0.5'	Total/NA	Solid	5030C	
885-31811-13	WS25-09 0-0.5'	Total/NA	Solid	5030C	
885-31811-14	WS25-10 0-0.5'	Total/NA	Solid	5030C	
885-31811-15	WS25-11 0-0.5'	Total/NA	Solid	5030C	
885-31811-16	WS25-12 0-2'	Total/NA	Solid	5030C	
MB 885-33274/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-33274/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-33274/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-31811-10 MS	BS25-16 0.5'	Total/NA	Solid	5030C	
885-31811-10 MSD	BS25-16 0.5'	Total/NA	Solid	5030C	
885-31811-11 MS	WS25-07 0-2'	Total/NA	Solid	5030C	
885-31811-11 MSD	WS25-07 0-2'	Total/NA	Solid	5030C	

Analysis Batch: 33351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-10	BS25-16 0.5'	Total/NA	Solid	8015M/D	33274
885-31811-11	WS25-07 0-2'	Total/NA	Solid	8015M/D	33274
885-31811-12	WS25-08 0-0.5'	Total/NA	Solid	8015M/D	33274
885-31811-13	WS25-09 0-0.5'	Total/NA	Solid	8015M/D	33274
885-31811-14	WS25-10 0-0.5'	Total/NA	Solid	8015M/D	33274
885-31811-15	WS25-11 0-0.5'	Total/NA	Solid	8015M/D	33274
885-31811-16	WS25-12 0-2'	Total/NA	Solid	8015M/D	33274
MB 885-33274/1-A	Method Blank	Total/NA	Solid	8015M/D	33274
LCS 885-33274/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33274
885-31811-10 MS	BS25-16 0.5'	Total/NA	Solid	8015M/D	33274
885-31811-10 MSD	BS25-16 0.5'	Total/NA	Solid	8015M/D	33274

Analysis Batch: 33352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-10	BS25-16 0.5'	Total/NA	Solid	8021B	33274
885-31811-11	WS25-07 0-2'	Total/NA	Solid	8021B	33274
885-31811-12	WS25-08 0-0.5'	Total/NA	Solid	8021B	33274
885-31811-13	WS25-09 0-0.5'	Total/NA	Solid	8021B	33274
885-31811-14	WS25-10 0-0.5'	Total/NA	Solid	8021B	33274

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QC Association Summary

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

GC VOA (Continued)

Analysis Batch: 33352 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-15	WS25-11 0-0.5'	Total/NA	Solid	8021B	33274
885-31811-16	WS25-12 0-2'	Total/NA	Solid	8021B	33274
MB 885-33274/1-A	Method Blank	Total/NA	Solid	8021B	33274
LCS 885-33274/3-A	Lab Control Sample	Total/NA	Solid	8021B	33274
885-31811-11 MS	WS25-07 0-2'	Total/NA	Solid	8021B	33274
885-31811-11 MSD	WS25-07 0-2'	Total/NA	Solid	8021B	33274

Analysis Batch: 33415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-1	BS25-07 0.5'	Total/NA	Solid	8021B	33231
885-31811-2	BS25-08 0.5'	Total/NA	Solid	8021B	33231
885-31811-4	BS25-10 0.5'	Total/NA	Solid	8021B	33231
885-31811-6	BS25-12 0.5'	Total/NA	Solid	8021B	33231
885-31811-7	BS25-13 0.5'	Total/NA	Solid	8021B	33231
885-31811-8	BS25-14 0.5'	Total/NA	Solid	8021B	33231
885-31811-9	BS25-15 2'	Total/NA	Solid	8021B	33231
MB 885-33231/1-A	Method Blank	Total/NA	Solid	8021B	33231
LCS 885-33231/3-A	Lab Control Sample	Total/NA	Solid	8021B	33231

Analysis Batch: 33416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-1	BS25-07 0.5'	Total/NA	Solid	8015M/D	33231
885-31811-2	BS25-08 0.5'	Total/NA	Solid	8015M/D	33231
885-31811-4	BS25-10 0.5'	Total/NA	Solid	8015M/D	33231
885-31811-6	BS25-12 0.5'	Total/NA	Solid	8015M/D	33231
885-31811-7	BS25-13 0.5'	Total/NA	Solid	8015M/D	33231
885-31811-8	BS25-14 0.5'	Total/NA	Solid	8015M/D	33231
885-31811-9	BS25-15 2'	Total/NA	Solid	8015M/D	33231
MB 885-33231/1-A	Method Blank	Total/NA	Solid	8015M/D	33231
LCS 885-33231/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33231

Analysis Batch: 33470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-3	BS25-09 2'	Total/NA	Solid	8015M/D	33231
885-31811-5	BS25-11 0.5'	Total/NA	Solid	8015M/D	33231

Analysis Batch: 33471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-3	BS25-09 2'	Total/NA	Solid	8021B	33231
885-31811-5	BS25-11 0.5'	Total/NA	Solid	8021B	33231

GC Semi VOA

Prep Batch: 33434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-1	BS25-07 0.5'	Total/NA	Solid	SHAKE	
885-31811-2	BS25-08 0.5'	Total/NA	Solid	SHAKE	
885-31811-3	BS25-09 2'	Total/NA	Solid	SHAKE	
885-31811-10	BS25-16 0.5'	Total/NA	Solid	SHAKE	
885-31811-11	WS25-07 0-2'	Total/NA	Solid	SHAKE	
885-31811-12	WS25-08 0-0.5'	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

GC Semi VOA (Continued)

Prep Batch: 33434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-13	WS25-09 0-0.5'	Total/NA	Solid	SHAKE	
885-31811-14	WS25-10 0-0.5'	Total/NA	Solid	SHAKE	
885-31811-15	WS25-11 0-0.5'	Total/NA	Solid	SHAKE	
885-31811-16	WS25-12 0-2'	Total/NA	Solid	SHAKE	
MB 885-33434/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-33434/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 33441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-1	BS25-07 0.5'	Total/NA	Solid	8015M/D	33434
885-31811-2	BS25-08 0.5'	Total/NA	Solid	8015M/D	33434
885-31811-3	BS25-09 2'	Total/NA	Solid	8015M/D	33434
885-31811-10	BS25-16 0.5'	Total/NA	Solid	8015M/D	33434
885-31811-11	WS25-07 0-2'	Total/NA	Solid	8015M/D	33434
885-31811-12	WS25-08 0-0.5'	Total/NA	Solid	8015M/D	33434
885-31811-13	WS25-09 0-0.5'	Total/NA	Solid	8015M/D	33434
MB 885-33434/1-A	Method Blank	Total/NA	Solid	8015M/D	33434
LCS 885-33434/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33434

Analysis Batch: 33540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-14	WS25-10 0-0.5'	Total/NA	Solid	8015M/D	33434
885-31811-15	WS25-11 0-0.5'	Total/NA	Solid	8015M/D	33434
885-31811-16	WS25-12 0-2'	Total/NA	Solid	8015M/D	33434

Prep Batch: 33717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-4	BS25-10 0.5'	Total/NA	Solid	SHAKE	
885-31811-5	BS25-11 0.5'	Total/NA	Solid	SHAKE	
885-31811-6	BS25-12 0.5'	Total/NA	Solid	SHAKE	
885-31811-7	BS25-13 0.5'	Total/NA	Solid	SHAKE	
885-31811-8	BS25-14 0.5'	Total/NA	Solid	SHAKE	
885-31811-9	BS25-15 2'	Total/NA	Solid	SHAKE	
MB 885-33717/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-33717/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 33778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-6	BS25-12 0.5'	Total/NA	Solid	8015M/D	33717
885-31811-8	BS25-14 0.5'	Total/NA	Solid	8015M/D	33717
885-31811-9	BS25-15 2'	Total/NA	Solid	8015M/D	33717

Analysis Batch: 33782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-4	BS25-10 0.5'	Total/NA	Solid	8015M/D	33717
885-31811-5	BS25-11 0.5'	Total/NA	Solid	8015M/D	33717
MB 885-33717/1-A	Method Blank	Total/NA	Solid	8015M/D	33717
LCS 885-33717/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33717

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QC Association Summary

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

GC Semi VOA

Analysis Batch: 33853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-7	BS25-13 0.5'	Total/NA	Solid	8015M/D	33717

HPLC/IC

Prep Batch: 33301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-1	BS25-07 0.5'	Total/NA	Solid	300_Prep	
885-31811-2	BS25-08 0.5'	Total/NA	Solid	300_Prep	
885-31811-3	BS25-09 2'	Total/NA	Solid	300_Prep	
885-31811-4	BS25-10 0.5'	Total/NA	Solid	300_Prep	
885-31811-5	BS25-11 0.5'	Total/NA	Solid	300_Prep	
885-31811-6	BS25-12 0.5'	Total/NA	Solid	300_Prep	
885-31811-7	BS25-13 0.5'	Total/NA	Solid	300_Prep	
885-31811-8	BS25-14 0.5'	Total/NA	Solid	300_Prep	
885-31811-9	BS25-15 2'	Total/NA	Solid	300_Prep	
885-31811-10	BS25-16 0.5'	Total/NA	Solid	300_Prep	
885-31811-11	WS25-07 0-2'	Total/NA	Solid	300_Prep	
885-31811-12	WS25-08 0-0.5'	Total/NA	Solid	300_Prep	
885-31811-13	WS25-09 0-0.5'	Total/NA	Solid	300_Prep	
885-31811-14	WS25-10 0-0.5'	Total/NA	Solid	300_Prep	
885-31811-15	WS25-11 0-0.5'	Total/NA	Solid	300_Prep	
885-31811-16	WS25-12 0-2'	Total/NA	Solid	300_Prep	
MB 885-33301/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-33301/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 33303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-1	BS25-07 0.5'	Total/NA	Solid	300.0	33301
885-31811-3	BS25-09 2'	Total/NA	Solid	300.0	33301
885-31811-4	BS25-10 0.5'	Total/NA	Solid	300.0	33301
885-31811-5	BS25-11 0.5'	Total/NA	Solid	300.0	33301
885-31811-6	BS25-12 0.5'	Total/NA	Solid	300.0	33301
885-31811-7	BS25-13 0.5'	Total/NA	Solid	300.0	33301
885-31811-8	BS25-14 0.5'	Total/NA	Solid	300.0	33301
885-31811-9	BS25-15 2'	Total/NA	Solid	300.0	33301
885-31811-10	BS25-16 0.5'	Total/NA	Solid	300.0	33301
885-31811-12	WS25-08 0-0.5'	Total/NA	Solid	300.0	33301
885-31811-13	WS25-09 0-0.5'	Total/NA	Solid	300.0	33301
885-31811-14	WS25-10 0-0.5'	Total/NA	Solid	300.0	33301
885-31811-15	WS25-11 0-0.5'	Total/NA	Solid	300.0	33301
885-31811-16	WS25-12 0-2'	Total/NA	Solid	300.0	33301
MB 885-33301/1-A	Method Blank	Total/NA	Solid	300.0	33301
LCS 885-33301/2-A	Lab Control Sample	Total/NA	Solid	300.0	33301

Analysis Batch: 33483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31811-2	BS25-08 0.5'	Total/NA	Solid	300.0	33301
885-31811-11	WS25-07 0-2'	Total/NA	Solid	300.0	33301

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-07 0.5'

Lab Sample ID: 885-31811-1

Date Collected: 08/22/25 13:00

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8015M/D		1	33416	JP	EET ALB	08/28/25 02:26
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8021B		1	33415	JP	EET ALB	08/28/25 02:26
Total/NA	Prep	SHAKE			33434	JM	EET ALB	08/28/25 07:23
Total/NA	Analysis	8015M/D		10	33441	BZR	EET ALB	08/28/25 12:46
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 09:21

Client Sample ID: BS25-08 0.5'

Lab Sample ID: 885-31811-2

Date Collected: 08/22/25 13:10

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8015M/D		1	33416	JP	EET ALB	08/28/25 02:49
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8021B		1	33415	JP	EET ALB	08/28/25 02:49
Total/NA	Prep	SHAKE			33434	JM	EET ALB	08/28/25 07:23
Total/NA	Analysis	8015M/D		10	33441	BZR	EET ALB	08/28/25 13:23
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		20	33483	KB	EET ALB	08/28/25 15:07

Client Sample ID: BS25-09 2'

Lab Sample ID: 885-31811-3

Date Collected: 08/22/25 13:20

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8015M/D		1	33470	JP	EET ALB	08/28/25 14:14
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8021B		1	33471	JP	EET ALB	08/28/25 14:14
Total/NA	Prep	SHAKE			33434	JM	EET ALB	08/28/25 07:23
Total/NA	Analysis	8015M/D		1	33441	BZR	EET ALB	08/28/25 15:43
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 10:42

Client Sample ID: BS25-10 0.5'

Lab Sample ID: 885-31811-4

Date Collected: 08/22/25 13:30

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8015M/D		1	33416	JP	EET ALB	08/28/25 03:37

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-10 0.5'

Lab Sample ID: 885-31811-4

Date Collected: 08/22/25 13:30

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8021B		1	33415	JP	EET ALB	08/28/25 03:37
Total/NA	Prep	SHAKE			33717	BZR	EET ALB	09/02/25 12:09
Total/NA	Analysis	8015M/D		20	33782	BZR	EET ALB	09/03/25 12:25
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 10:56

Client Sample ID: BS25-11 0.5'

Lab Sample ID: 885-31811-5

Date Collected: 08/22/25 13:40

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8015M/D		1	33470	JP	EET ALB	08/28/25 14:37
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8021B		1	33471	JP	EET ALB	08/28/25 14:37
Total/NA	Prep	SHAKE			33717	BZR	EET ALB	09/02/25 12:09
Total/NA	Analysis	8015M/D		10	33782	BZR	EET ALB	09/03/25 22:41
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 11:37

Client Sample ID: BS25-12 0.5'

Lab Sample ID: 885-31811-6

Date Collected: 08/22/25 13:50

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8015M/D		1	33416	JP	EET ALB	08/28/25 04:24
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8021B		1	33415	JP	EET ALB	08/28/25 04:24
Total/NA	Prep	SHAKE			33717	BZR	EET ALB	09/02/25 12:09
Total/NA	Analysis	8015M/D		10	33778	DR	EET ALB	09/03/25 11:45
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 11:50

Client Sample ID: BS25-13 0.5'

Lab Sample ID: 885-31811-7

Date Collected: 08/22/25 14:00

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8015M/D		1	33416	JP	EET ALB	08/28/25 04:48
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8021B		1	33415	JP	EET ALB	08/28/25 04:48

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-13 0.5'
Date Collected: 08/22/25 14:00
Date Received: 08/26/25 07:40

Lab Sample ID: 885-31811-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			33717	BZR	EET ALB	09/02/25 12:09
Total/NA	Analysis	8015M/D		2	33853	EM	EET ALB	09/04/25 14:50
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 12:04

Client Sample ID: BS25-14 0.5'
Date Collected: 08/22/25 14:10
Date Received: 08/26/25 07:40

Lab Sample ID: 885-31811-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8015M/D		1	33416	JP	EET ALB	08/28/25 05:12
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8021B		1	33415	JP	EET ALB	08/28/25 05:12
Total/NA	Prep	SHAKE			33717	BZR	EET ALB	09/02/25 12:09
Total/NA	Analysis	8015M/D		1	33778	DR	EET ALB	09/03/25 12:07
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 12:18

Client Sample ID: BS25-15 2'
Date Collected: 08/22/25 14:20
Date Received: 08/26/25 07:40

Lab Sample ID: 885-31811-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8015M/D		1	33416	JP	EET ALB	08/28/25 05:36
Total/NA	Prep	5030C			33231	KLS	EET ALB	08/26/25 12:48
Total/NA	Analysis	8021B		1	33415	JP	EET ALB	08/28/25 05:36
Total/NA	Prep	SHAKE			33717	BZR	EET ALB	09/02/25 12:09
Total/NA	Analysis	8015M/D		10	33778	DR	EET ALB	09/03/25 12:19
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 12:31

Client Sample ID: BS25-16 0.5'
Date Collected: 08/22/25 14:30
Date Received: 08/26/25 07:40

Lab Sample ID: 885-31811-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8015M/D		1	33351	JP	EET ALB	08/27/25 14:12
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8021B		1	33352	JP	EET ALB	08/27/25 14:12
Total/NA	Prep	SHAKE			33434	JM	EET ALB	08/28/25 07:23
Total/NA	Analysis	8015M/D		10	33441	BZR	EET ALB	08/28/25 18:37

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: BS25-16 0.5'

Lab Sample ID: 885-31811-10

Date Collected: 08/22/25 14:30

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 12:45

Client Sample ID: WS25-07 0-2'

Lab Sample ID: 885-31811-11

Date Collected: 08/22/25 14:40

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8015M/D		1	33351	JP	EET ALB	08/27/25 15:23
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8021B		1	33352	JP	EET ALB	08/27/25 15:23
Total/NA	Prep	SHAKE			33434	JM	EET ALB	08/28/25 07:23
Total/NA	Analysis	8015M/D		10	33441	BZR	EET ALB	08/28/25 19:14
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		20	33483	KB	EET ALB	08/28/25 15:17

Client Sample ID: WS25-08 0-0.5'

Lab Sample ID: 885-31811-12

Date Collected: 08/22/25 14:50

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8015M/D		1	33351	JP	EET ALB	08/27/25 16:34
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8021B		1	33352	JP	EET ALB	08/27/25 16:34
Total/NA	Prep	SHAKE			33434	JM	EET ALB	08/28/25 07:23
Total/NA	Analysis	8015M/D		10	33441	BZR	EET ALB	08/28/25 19:51
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 13:12

Client Sample ID: WS25-09 0-0.5'

Lab Sample ID: 885-31811-13

Date Collected: 08/22/25 15:00

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8015M/D		1	33351	JP	EET ALB	08/27/25 16:58
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8021B		1	33352	JP	EET ALB	08/27/25 16:58
Total/NA	Prep	SHAKE			33434	JM	EET ALB	08/28/25 07:23
Total/NA	Analysis	8015M/D		10	33441	BZR	EET ALB	08/28/25 20:40
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 13:26

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Client Sample ID: WS25-10 0-0.5'

Lab Sample ID: 885-31811-14

Date Collected: 08/22/25 15:10

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8015M/D		1	33351	JP	EET ALB	08/27/25 17:22
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8021B		1	33352	JP	EET ALB	08/27/25 17:22
Total/NA	Prep	SHAKE			33434	JM	EET ALB	08/28/25 07:23
Total/NA	Analysis	8015M/D		1	33540	EM	EET ALB	08/29/25 12:13
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 13:40

Client Sample ID: WS25-11 0-0.5'

Lab Sample ID: 885-31811-15

Date Collected: 08/22/25 15:20

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8015M/D		1	33351	JP	EET ALB	08/27/25 17:45
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8021B		1	33352	JP	EET ALB	08/27/25 17:45
Total/NA	Prep	SHAKE			33434	JM	EET ALB	08/28/25 07:23
Total/NA	Analysis	8015M/D		1	33540	EM	EET ALB	08/29/25 12:50
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 14:20

Client Sample ID: WS25-12 0-2'

Lab Sample ID: 885-31811-16

Date Collected: 08/22/25 15:30

Matrix: Solid

Date Received: 08/26/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8015M/D		1	33351	JP	EET ALB	08/27/25 18:09
Total/NA	Prep	5030C			33274	KLS	EET ALB	08/26/25 15:51
Total/NA	Analysis	8021B		1	33352	JP	EET ALB	08/27/25 18:09
Total/NA	Prep	SHAKE			33434	JM	EET ALB	08/28/25 07:23
Total/NA	Analysis	8015M/D		1	33540	EM	EET ALB	08/29/25 13:26
Total/NA	Prep	300_Prep			33301	RC	EET ALB	08/27/25 07:11
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 14:34

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-31811-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Released to Imaging: 7/20/2026 1:17:26 PM

☐ EDD (Type) _____

Cooler Temp (including CF): 0.5-0.2-0.3 (°C)

[illegible]

9/8/5 190 15mmmmmm

2. 6. 7:40

RTX	TEX	MTBE / TMB's (8021)
TPH	8015D	(GRO / DRO / MRO)
8081	Pesticides	/8082 PCB's
EDB	(Method 504.1)	
PAHs	by 8310 or 8270	SIMS
RCRA	8 Metals	
Cl	F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260	(VOA)	
8270	(Semi-VOA)	
Total	Coliform	(Present/Absent)

1

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~~

Bill to Devon

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

Project Name:

SDE 31 Fed CTB

Project #:

24E-01499

Project Manager:

Sully Carttar

Sampler:

On Ice:

☒ Yes☐ No

Abby

of Coolers:

Cooler Temp (including CF): 0.5-0.2-0.3 (°C)

Container Type and #

Preservative Type

HEAL No.

Date Time Matrix Sample Name

8-22-25	1440	Soil	WS25-07 0-2'
	1450		WS25-08 0-0.5'
	1500		WS25-09 0-0.5'
	1510		WS25-10 0-0.5'
	1520		WS25-11 0-0.5'
	1530		WS25-12 0-2'

1, 402

ICE

BTEX / MTBE / TMB's (8021)

TPH: 3015D(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)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date: 8-22-25 Time: 1800 Relinquished by:

Date: 8/25/25 Time: 1900 Relinquished by:

Received by:

Received by:

Via:

Via:

Date: 8/25/25 Time: 1030

Date: 8/26/25 Time: 7:40

Remarks:

CC: scott@vertexresource.com
 permian@vertexresource.com

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-31811-1

Login Number: 31811

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kent Stallings
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 9/5/2025 3:38:22 PM

JOB DESCRIPTION

SDE 31 Federal CTB

JOB NUMBER

885-32050-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Andy Freeman, Business Unit Manager
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(505)345-3975

Client: Vertex
Project/Site: SDE 31 Federal CTB

Laboratory Job ID: 885-32050-1

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Definitions/Glossary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: SDE 31 Federal CTB

Job ID: 885-32050-1

Job ID: 885-32050-1

Eurofins Albuquerque

Job Narrative 885-32050-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/28/2025 7:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: The following sample was diluted due to abundance of target analytes : BS25-29 0' (885-32050-13). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8015D_DRO: The following samples required a dilution due to the nature of the sample matrix: BS25-18 0' (885-32050-2) and BS25-21 0' (885-32050-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015D_DRO: The following samples required a dilution due to the nature of the sample matrix: BS25-45 0' (885-32050-29), BS25-50 0' (885-32050-34) and BS25-51 0' (885-32050-35). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

HPLC/IC

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

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Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-17 0'

Lab Sample ID: 885-32050-1

Date Collected: 08/25/25 10:48

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/28/25 12:13	08/30/25 03:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			08/28/25 12:13	08/30/25 03:26	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 12:13	08/30/25 03:26	1
Ethylbenzene	ND		0.050	mg/Kg		08/28/25 12:13	08/30/25 03:26	1
Toluene	ND		0.050	mg/Kg		08/28/25 12:13	08/30/25 03:26	1
Xylenes, Total	ND		0.099	mg/Kg		08/28/25 12:13	08/30/25 03:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			08/28/25 12:13	08/30/25 03:26	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	37		9.7	mg/Kg		08/29/25 07:42	09/02/25 11:54	1
Motor Oil Range Organics [C28-C40]	77		48	mg/Kg		08/29/25 07:42	09/02/25 11:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			08/29/25 07:42	09/02/25 11:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	720		50	mg/Kg		08/28/25 14:06	08/28/25 18:53	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-18 0'

Lab Sample ID: 885-32050-2

Date Collected: 08/25/25 10:50

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/28/25 12:13	08/30/25 04:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			08/28/25 12:13	08/30/25 04:31	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 12:13	08/30/25 04:31	1
Ethylbenzene	ND		0.050	mg/Kg		08/28/25 12:13	08/30/25 04:31	1
Toluene	ND		0.050	mg/Kg		08/28/25 12:13	08/30/25 04:31	1
Xylenes, Total	ND		0.099	mg/Kg		08/28/25 12:13	08/30/25 04:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			08/28/25 12:13	08/30/25 04:31	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	220		93	mg/Kg		08/29/25 07:42	09/02/25 12:05	10
Motor Oil Range Organics [C28-C40]	730		470	mg/Kg		08/29/25 07:42	09/02/25 12:05	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1-	62 - 134			08/29/25 07:42	09/02/25 12:05	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	780		49	mg/Kg		08/28/25 14:06	08/28/25 19:03	10

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Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-19 0'

Lab Sample ID: 885-32050-3

Date Collected: 08/25/25 10:52

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 12:13	08/30/25 05:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			08/28/25 12:13	08/30/25 05:59	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 12:13	08/30/25 05:59	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 05:59	1
Toluene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 05:59	1
Xylenes, Total	ND		0.098	mg/Kg		08/28/25 12:13	08/30/25 05:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			08/28/25 12:13	08/30/25 05:59	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	56		9.7	mg/Kg		08/29/25 07:42	09/04/25 02:16	1
Motor Oil Range Organics [C28-C40]	150		48	mg/Kg		08/29/25 07:42	09/04/25 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			08/29/25 07:42	09/04/25 02:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		51	mg/Kg		08/28/25 14:06	08/28/25 19:13	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-20 0'

Lab Sample ID: 885-32050-4

Date Collected: 08/25/25 10:56

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/28/25 12:13	08/30/25 06:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			08/28/25 12:13	08/30/25 06:21	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 12:13	08/30/25 06:21	1
Ethylbenzene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 06:21	1
Toluene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 06:21	1
Xylenes, Total	ND		0.097	mg/Kg		08/28/25 12:13	08/30/25 06:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			08/28/25 12:13	08/30/25 06:21	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		08/29/25 07:42	09/02/25 12:28	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		08/29/25 07:42	09/02/25 12:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			08/29/25 07:42	09/02/25 12:28	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220		50	mg/Kg		08/28/25 14:06	08/28/25 19:23	10

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Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-21 0'

Lab Sample ID: 885-32050-5

Date Collected: 08/25/25 11:00

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/28/25 12:13	08/30/25 06:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			08/28/25 12:13	08/30/25 06:43	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 12:13	08/30/25 06:43	1
Ethylbenzene	ND		0.050	mg/Kg		08/28/25 12:13	08/30/25 06:43	1
Toluene	ND		0.050	mg/Kg		08/28/25 12:13	08/30/25 06:43	1
Xylenes, Total	ND		0.10	mg/Kg		08/28/25 12:13	08/30/25 06:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/28/25 12:13	08/30/25 06:43	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	39		9.5	mg/Kg		08/29/25 07:42	09/04/25 02:39	1
Motor Oil Range Organics [C28-C40]	120		47	mg/Kg		08/29/25 07:42	09/04/25 02:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			08/29/25 07:42	09/04/25 02:39	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		50	mg/Kg		08/28/25 14:06	08/28/25 19:33	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-22 0'

Lab Sample ID: 885-32050-6

Date Collected: 08/25/25 11:12

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/28/25 12:13	08/30/25 07:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			08/28/25 12:13	08/30/25 07:04	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 12:13	08/30/25 07:04	1
Ethylbenzene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 07:04	1
Toluene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 07:04	1
Xylenes, Total	ND		0.096	mg/Kg		08/28/25 12:13	08/30/25 07:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/28/25 12:13	08/30/25 07:04	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	36		9.6	mg/Kg		08/29/25 07:42	09/04/25 03:03	1
Motor Oil Range Organics [C28-C40]	130		48	mg/Kg		08/29/25 07:42	09/04/25 03:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			08/29/25 07:42	09/04/25 03:03	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	580		51	mg/Kg		08/28/25 14:06	08/28/25 19:42	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-23 0'

Lab Sample ID: 885-32050-7

Date Collected: 08/25/25 11:18

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 12:13	08/30/25 07:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			08/28/25 12:13	08/30/25 07:26	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 12:13	08/30/25 07:26	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 07:26	1
Toluene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 07:26	1
Xylenes, Total	ND		0.097	mg/Kg		08/28/25 12:13	08/30/25 07:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			08/28/25 12:13	08/30/25 07:26	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		08/29/25 07:42	09/02/25 13:02	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/29/25 07:42	09/02/25 13:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			08/29/25 07:42	09/02/25 13:02	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3900		50	mg/Kg		08/28/25 14:06	08/28/25 19:52	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-24 0'

Lab Sample ID: 885-32050-8

Date Collected: 08/25/25 11:23

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 12:13	08/30/25 07:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			08/28/25 12:13	08/30/25 07:48	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 12:13	08/30/25 07:48	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 07:48	1
Toluene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 07:48	1
Xylenes, Total	ND		0.099	mg/Kg		08/28/25 12:13	08/30/25 07:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/28/25 12:13	08/30/25 07:48	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	49		9.4	mg/Kg		08/29/25 07:42	09/02/25 13:25	1
Motor Oil Range Organics [C28-C40]	130		47	mg/Kg		08/29/25 07:42	09/02/25 13:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			08/29/25 07:42	09/02/25 13:25	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4800		50	mg/Kg		08/28/25 14:06	08/28/25 20:02	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-25 0'

Lab Sample ID: 885-32050-9

Date Collected: 08/25/25 11:27

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 12:13	08/30/25 08:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			08/28/25 12:13	08/30/25 08:09	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 12:13	08/30/25 08:09	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 08:09	1
Toluene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 08:09	1
Xylenes, Total	ND		0.099	mg/Kg		08/28/25 12:13	08/30/25 08:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/28/25 12:13	08/30/25 08:09	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7	mg/Kg		08/29/25 07:42	09/02/25 13:36	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		08/29/25 07:42	09/02/25 13:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			08/29/25 07:42	09/02/25 13:36	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		50	mg/Kg		08/28/25 14:06	08/28/25 20:12	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-26 0'

Lab Sample ID: 885-32050-10

Date Collected: 08/25/25 11:39

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		08/28/25 12:13	08/30/25 08:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			08/28/25 12:13	08/30/25 08:52	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 12:13	08/30/25 08:52	1
Ethylbenzene	ND		0.047	mg/Kg		08/28/25 12:13	08/30/25 08:52	1
Toluene	ND		0.047	mg/Kg		08/28/25 12:13	08/30/25 08:52	1
Xylenes, Total	ND		0.094	mg/Kg		08/28/25 12:13	08/30/25 08:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			08/28/25 12:13	08/30/25 08:52	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	40		10	mg/Kg		08/29/25 07:42	09/02/25 13:48	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/29/25 07:42	09/02/25 13:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			08/29/25 07:42	09/02/25 13:48	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3400		51	mg/Kg		08/28/25 14:06	08/28/25 20:22	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-27 0'

Lab Sample ID: 885-32050-11

Date Collected: 08/25/25 11:43

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/28/25 12:13	08/30/25 09:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			08/28/25 12:13	08/30/25 09:14	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 12:13	08/30/25 09:14	1
Ethylbenzene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 09:14	1
Toluene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 09:14	1
Xylenes, Total	ND		0.096	mg/Kg		08/28/25 12:13	08/30/25 09:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			08/28/25 12:13	08/30/25 09:14	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14		9.3	mg/Kg		08/29/25 07:42	09/02/25 13:59	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		08/29/25 07:42	09/02/25 13:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			08/29/25 07:42	09/02/25 13:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2200		50	mg/Kg		08/28/25 14:06	08/28/25 20:51	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-28 0'

Lab Sample ID: 885-32050-12

Date Collected: 08/25/25 11:46

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		08/28/25 12:13	08/30/25 09:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			08/28/25 12:13	08/30/25 09:36	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 12:13	08/30/25 09:36	1
Ethylbenzene	ND		0.047	mg/Kg		08/28/25 12:13	08/30/25 09:36	1
Toluene	ND		0.047	mg/Kg		08/28/25 12:13	08/30/25 09:36	1
Xylenes, Total	ND		0.095	mg/Kg		08/28/25 12:13	08/30/25 09:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			08/28/25 12:13	08/30/25 09:36	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		08/29/25 07:42	09/02/25 14:11	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/29/25 07:42	09/02/25 14:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			08/29/25 07:42	09/02/25 14:11	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		51	mg/Kg		08/28/25 14:06	08/28/25 21:01	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-29 0'

Lab Sample ID: 885-32050-13

Date Collected: 08/25/25 11:52

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/28/25 12:13	08/30/25 09:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			08/28/25 12:13	08/30/25 09:58	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 12:13	08/30/25 09:58	1
Ethylbenzene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 09:58	1
Toluene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 09:58	1
Xylenes, Total	ND		0.097	mg/Kg		08/28/25 12:13	08/30/25 09:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			08/28/25 12:13	08/30/25 09:58	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	890		89	mg/Kg		08/29/25 07:42	09/04/25 03:27	10
Motor Oil Range Organics [C28-C40]	2800		450	mg/Kg		08/29/25 07:42	09/04/25 03:27	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/29/25 07:42	09/04/25 03:27	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7400		51	mg/Kg		08/29/25 07:48	08/29/25 10:27	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-30 0'

Lab Sample ID: 885-32050-14

Date Collected: 08/25/25 11:56

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 12:13	08/30/25 10:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			08/28/25 12:13	08/30/25 10:20	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 12:13	08/30/25 10:20	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 10:20	1
Toluene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 10:20	1
Xylenes, Total	ND		0.099	mg/Kg		08/28/25 12:13	08/30/25 10:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			08/28/25 12:13	08/30/25 10:20	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		08/29/25 07:42	09/04/25 03:51	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		08/29/25 07:42	09/04/25 03:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			08/29/25 07:42	09/04/25 03:51	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		50	mg/Kg		08/29/25 07:48	08/29/25 11:00	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-31 0'

Lab Sample ID: 885-32050-15

Date Collected: 08/25/25 12:00

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 12:13	08/30/25 10:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			08/28/25 12:13	08/30/25 10:41	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 12:13	08/30/25 10:41	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 10:41	1
Toluene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 10:41	1
Xylenes, Total	ND		0.097	mg/Kg		08/28/25 12:13	08/30/25 10:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/28/25 12:13	08/30/25 10:41	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	57		9.4	mg/Kg		08/29/25 07:42	09/04/25 04:14	1
Motor Oil Range Organics [C28-C40]	140		47	mg/Kg		08/29/25 07:42	09/04/25 04:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88		62 - 134			08/29/25 07:42	09/04/25 04:14	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		50	mg/Kg		08/29/25 07:48	08/29/25 11:54	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-32 0'

Lab Sample ID: 885-32050-16

Date Collected: 08/25/25 12:05

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/28/25 12:13	08/30/25 11:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			08/28/25 12:13	08/30/25 11:03	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 12:13	08/30/25 11:03	1
Ethylbenzene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 11:03	1
Toluene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 11:03	1
Xylenes, Total	ND		0.096	mg/Kg		08/28/25 12:13	08/30/25 11:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			08/28/25 12:13	08/30/25 11:03	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	44		9.4	mg/Kg		08/29/25 07:42	09/02/25 14:57	1
Motor Oil Range Organics [C28-C40]	110		47	mg/Kg		08/29/25 07:42	09/02/25 14:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			08/29/25 07:42	09/02/25 14:57	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5500		50	mg/Kg		08/29/25 07:48	08/29/25 12:05	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-33 0'

Lab Sample ID: 885-32050-17

Date Collected: 08/25/25 12:08

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/28/25 12:13	08/30/25 11:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			08/28/25 12:13	08/30/25 11:25	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 12:13	08/30/25 11:25	1
Ethylbenzene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 11:25	1
Toluene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 11:25	1
Xylenes, Total	ND		0.096	mg/Kg		08/28/25 12:13	08/30/25 11:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			08/28/25 12:13	08/30/25 11:25	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		08/29/25 07:42	09/02/25 15:08	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/29/25 07:42	09/02/25 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	121		62 - 134			08/29/25 07:42	09/02/25 15:08	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		51	mg/Kg		08/29/25 07:48	08/29/25 12:16	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-34 0'

Lab Sample ID: 885-32050-18

Date Collected: 08/25/25 12:13

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/28/25 12:13	08/30/25 11:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			08/28/25 12:13	08/30/25 11:47	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 12:13	08/30/25 11:47	1
Ethylbenzene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 11:47	1
Toluene	ND		0.048	mg/Kg		08/28/25 12:13	08/30/25 11:47	1
Xylenes, Total	ND		0.095	mg/Kg		08/28/25 12:13	08/30/25 11:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			08/28/25 12:13	08/30/25 11:47	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	150		9.9	mg/Kg		08/29/25 07:42	09/04/25 04:38	1
Motor Oil Range Organics [C28-C40]	300		49	mg/Kg		08/29/25 07:42	09/04/25 04:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			08/29/25 07:42	09/04/25 04:38	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		50	mg/Kg		08/29/25 07:48	08/29/25 12:26	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-35 0'

Lab Sample ID: 885-32050-19

Date Collected: 08/25/25 12:18

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 12:13	08/30/25 12:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			08/28/25 12:13	08/30/25 12:08	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 12:13	08/30/25 12:08	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 12:08	1
Toluene	ND		0.049	mg/Kg		08/28/25 12:13	08/30/25 12:08	1
Xylenes, Total	ND		0.098	mg/Kg		08/28/25 12:13	08/30/25 12:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			08/28/25 12:13	08/30/25 12:08	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		08/29/25 07:42	09/02/25 15:31	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/29/25 07:42	09/02/25 15:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			08/29/25 07:42	09/02/25 15:31	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3300		50	mg/Kg		08/29/25 07:48	08/29/25 12:37	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-36 0'

Lab Sample ID: 885-32050-20

Date Collected: 08/25/25 12:15

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/28/25 14:17	08/29/25 21:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			08/28/25 14:17	08/29/25 21:37	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 14:17	08/29/25 21:37	1
Ethylbenzene	ND		0.050	mg/Kg		08/28/25 14:17	08/29/25 21:37	1
Toluene	ND		0.050	mg/Kg		08/28/25 14:17	08/29/25 21:37	1
Xylenes, Total	ND		0.099	mg/Kg		08/28/25 14:17	08/29/25 21:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		15 - 150			08/28/25 14:17	08/29/25 21:37	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	160		19	mg/Kg		09/02/25 15:01	09/04/25 14:54	2
Motor Oil Range Organics [C28-C40]	220		94	mg/Kg		09/02/25 15:01	09/04/25 14:54	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			09/02/25 15:01	09/04/25 14:54	2
Di-n-octyl phthalate (Surr)	89		62 - 134			09/02/25 15:01	09/04/25 16:29	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		51	mg/Kg		08/29/25 07:48	08/29/25 12:48	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-37 0'

Lab Sample ID: 885-32050-21

Date Collected: 08/25/25 12:10

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/28/25 14:17	08/29/25 22:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			08/28/25 14:17	08/29/25 22:48	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 14:17	08/29/25 22:48	1
Ethylbenzene	ND		0.050	mg/Kg		08/28/25 14:17	08/29/25 22:48	1
Toluene	ND		0.050	mg/Kg		08/28/25 14:17	08/29/25 22:48	1
Xylenes, Total	ND		0.099	mg/Kg		08/28/25 14:17	08/29/25 22:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		15 - 150			08/28/25 14:17	08/29/25 22:48	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		09/02/25 15:01	09/03/25 16:45	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/02/25 15:01	09/03/25 16:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			09/02/25 15:01	09/03/25 16:45	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3800		50	mg/Kg		08/29/25 07:48	08/29/25 12:59	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-38 0'

Lab Sample ID: 885-32050-22

Date Collected: 08/25/25 12:08

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 14:17	08/29/25 23:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			08/28/25 14:17	08/29/25 23:58	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 14:17	08/29/25 23:58	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 14:17	08/29/25 23:58	1
Toluene	ND		0.049	mg/Kg		08/28/25 14:17	08/29/25 23:58	1
Xylenes, Total	ND		0.097	mg/Kg		08/28/25 14:17	08/29/25 23:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		15 - 150			08/28/25 14:17	08/29/25 23:58	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		09/02/25 15:01	09/03/25 17:09	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/02/25 15:01	09/03/25 17:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			09/02/25 15:01	09/03/25 17:09	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		50	mg/Kg		08/29/25 07:48	08/29/25 13:10	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-39 0'

Lab Sample ID: 885-32050-23

Date Collected: 08/25/25 12:05

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 14:17	08/30/25 00:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			08/28/25 14:17	08/30/25 00:22	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 14:17	08/30/25 00:22	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 00:22	1
Toluene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 00:22	1
Xylenes, Total	ND		0.099	mg/Kg		08/28/25 14:17	08/30/25 00:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		15 - 150			08/28/25 14:17	08/30/25 00:22	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/02/25 15:01	09/03/25 17:32	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/02/25 15:01	09/03/25 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			09/02/25 15:01	09/03/25 17:32	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4800		50	mg/Kg		08/29/25 07:48	08/29/25 13:21	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-40 0'

Lab Sample ID: 885-32050-24

Date Collected: 08/25/25 11:57

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 14:17	08/30/25 00:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			08/28/25 14:17	08/30/25 00:46	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 14:17	08/30/25 00:46	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 00:46	1
Toluene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 00:46	1
Xylenes, Total	ND		0.099	mg/Kg		08/28/25 14:17	08/30/25 00:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		15 - 150			08/28/25 14:17	08/30/25 00:46	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	59		9.9	mg/Kg		09/02/25 15:01	09/03/25 18:20	1
Motor Oil Range Organics [C28-C40]	220		49	mg/Kg		09/02/25 15:01	09/03/25 18:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	81		62 - 134			09/02/25 15:01	09/03/25 18:20	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		50	mg/Kg		08/29/25 07:48	08/29/25 13:32	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-41 0'

Lab Sample ID: 885-32050-25

Date Collected: 08/25/25 11:55

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/28/25 14:17	08/30/25 01:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			08/28/25 14:17	08/30/25 01:10	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 14:17	08/30/25 01:10	1
Ethylbenzene	ND		0.050	mg/Kg		08/28/25 14:17	08/30/25 01:10	1
Toluene	ND		0.050	mg/Kg		08/28/25 14:17	08/30/25 01:10	1
Xylenes, Total	ND		0.099	mg/Kg		08/28/25 14:17	08/30/25 01:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/28/25 14:17	08/30/25 01:10	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	100		9.6	mg/Kg		09/02/25 15:01	09/03/25 18:44	1
Motor Oil Range Organics [C28-C40]	210		48	mg/Kg		09/02/25 15:01	09/03/25 18:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			09/02/25 15:01	09/03/25 18:44	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3400		50	mg/Kg		08/29/25 07:48	08/29/25 14:04	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-42 0'

Lab Sample ID: 885-32050-26

Date Collected: 08/25/25 11:50

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 14:17	08/30/25 01:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			08/28/25 14:17	08/30/25 01:34	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 14:17	08/30/25 01:34	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 01:34	1
Toluene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 01:34	1
Xylenes, Total	ND		0.099	mg/Kg		08/28/25 14:17	08/30/25 01:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		15 - 150			08/28/25 14:17	08/30/25 01:34	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	39		9.8	mg/Kg		09/02/25 15:01	09/03/25 19:07	1
Motor Oil Range Organics [C28-C40]	99		49	mg/Kg		09/02/25 15:01	09/03/25 19:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			09/02/25 15:01	09/03/25 19:07	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3800		49	mg/Kg		08/29/25 07:48	08/29/25 14:15	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-43 0'

Lab Sample ID: 885-32050-27

Date Collected: 08/25/25 11:43

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/28/25 14:17	08/30/25 01:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			08/28/25 14:17	08/30/25 01:58	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 14:17	08/30/25 01:58	1
Ethylbenzene	ND		0.050	mg/Kg		08/28/25 14:17	08/30/25 01:58	1
Toluene	ND		0.050	mg/Kg		08/28/25 14:17	08/30/25 01:58	1
Xylenes, Total	ND		0.10	mg/Kg		08/28/25 14:17	08/30/25 01:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		15 - 150			08/28/25 14:17	08/30/25 01:58	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	72		19	mg/Kg		09/02/25 15:01	09/04/25 15:18	2
Motor Oil Range Organics [C28-C40]	180		96	mg/Kg		09/02/25 15:01	09/04/25 15:18	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			09/02/25 15:01	09/04/25 15:18	2
Di-n-octyl phthalate (Surr)	97		62 - 134			09/02/25 15:01	09/04/25 17:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2700		51	mg/Kg		08/29/25 07:48	08/29/25 14:26	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-44 0'

Lab Sample ID: 885-32050-28

Date Collected: 08/25/25 11:39

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/28/25 14:17	08/30/25 02:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			08/28/25 14:17	08/30/25 02:21	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 14:17	08/30/25 02:21	1
Ethylbenzene	ND		0.048	mg/Kg		08/28/25 14:17	08/30/25 02:21	1
Toluene	ND		0.048	mg/Kg		08/28/25 14:17	08/30/25 02:21	1
Xylenes, Total	ND		0.095	mg/Kg		08/28/25 14:17	08/30/25 02:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		15 - 150			08/28/25 14:17	08/30/25 02:21	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		09/04/25 13:01	09/05/25 00:04	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/04/25 13:01	09/05/25 00:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			09/04/25 13:01	09/05/25 00:04	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		50	mg/Kg		08/29/25 07:48	08/29/25 14:37	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-45 0'

Lab Sample ID: 885-32050-29

Date Collected: 08/25/25 11:35

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 14:17	08/30/25 02:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			08/28/25 14:17	08/30/25 02:45	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 14:17	08/30/25 02:45	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 02:45	1
Toluene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 02:45	1
Xylenes, Total	ND		0.099	mg/Kg		08/28/25 14:17	08/30/25 02:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		15 - 150			08/28/25 14:17	08/30/25 02:45	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	980		100	mg/Kg		09/04/25 13:01	09/05/25 00:16	10
Motor Oil Range Organics [C28-C40]	1300		500	mg/Kg		09/04/25 13:01	09/05/25 00:16	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			09/04/25 13:01	09/05/25 00:16	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600		49	mg/Kg		08/29/25 07:48	08/29/25 14:47	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-46 0'

Lab Sample ID: 885-32050-30

Date Collected: 08/25/25 11:30

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/28/25 14:17	08/30/25 03:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			08/28/25 14:17	08/30/25 03:32	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 14:17	08/30/25 03:32	1
Ethylbenzene	ND		0.048	mg/Kg		08/28/25 14:17	08/30/25 03:32	1
Toluene	ND		0.048	mg/Kg		08/28/25 14:17	08/30/25 03:32	1
Xylenes, Total	ND		0.097	mg/Kg		08/28/25 14:17	08/30/25 03:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		15 - 150			08/28/25 14:17	08/30/25 03:32	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	53		9.9	mg/Kg		09/04/25 13:01	09/05/25 00:29	1
Motor Oil Range Organics [C28-C40]	120		49	mg/Kg		09/04/25 13:01	09/05/25 00:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			09/04/25 13:01	09/05/25 00:29	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		49	mg/Kg		08/29/25 07:48	08/29/25 14:58	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-47 0'

Lab Sample ID: 885-32050-31

Date Collected: 08/25/25 11:27

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 14:17	08/30/25 03:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			08/28/25 14:17	08/30/25 03:56	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 14:17	08/30/25 03:56	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 03:56	1
Toluene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 03:56	1
Xylenes, Total	ND		0.097	mg/Kg		08/28/25 14:17	08/30/25 03:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/28/25 14:17	08/30/25 03:56	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		09/04/25 13:01	09/05/25 00:41	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/04/25 13:01	09/05/25 00:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			09/04/25 13:01	09/05/25 00:41	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		50	mg/Kg		08/29/25 07:48	08/29/25 15:09	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-48 0'

Lab Sample ID: 885-32050-32

Date Collected: 08/25/25 11:25

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/28/25 14:17	08/30/25 04:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			08/28/25 14:17	08/30/25 04:20	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 14:17	08/30/25 04:20	1
Ethylbenzene	ND		0.048	mg/Kg		08/28/25 14:17	08/30/25 04:20	1
Toluene	ND		0.048	mg/Kg		08/28/25 14:17	08/30/25 04:20	1
Xylenes, Total	ND		0.095	mg/Kg		08/28/25 14:17	08/30/25 04:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		15 - 150			08/28/25 14:17	08/30/25 04:20	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	98		9.5	mg/Kg		09/04/25 13:01	09/05/25 13:16	1
Motor Oil Range Organics [C28-C40]	210		48	mg/Kg		09/04/25 13:01	09/05/25 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			09/04/25 13:01	09/05/25 13:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		50	mg/Kg		08/29/25 07:48	08/29/25 15:20	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-49 0'

Lab Sample ID: 885-32050-33

Date Collected: 08/25/25 11:17

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6	mg/Kg		08/28/25 14:17	08/30/25 04:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			08/28/25 14:17	08/30/25 04:43	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/28/25 14:17	08/30/25 04:43	1
Ethylbenzene	ND		0.046	mg/Kg		08/28/25 14:17	08/30/25 04:43	1
Toluene	ND		0.046	mg/Kg		08/28/25 14:17	08/30/25 04:43	1
Xylenes, Total	ND		0.092	mg/Kg		08/28/25 14:17	08/30/25 04:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		15 - 150			08/28/25 14:17	08/30/25 04:43	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	130		9.2	mg/Kg		09/04/25 13:01	09/05/25 01:06	1
Motor Oil Range Organics [C28-C40]	200		46	mg/Kg		09/04/25 13:01	09/05/25 01:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			09/04/25 13:01	09/05/25 01:06	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3500		50	mg/Kg		08/29/25 08:18	08/29/25 15:31	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-50 0'

Lab Sample ID: 885-32050-34

Date Collected: 08/25/25 11:18

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 14:17	08/30/25 05:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			08/28/25 14:17	08/30/25 05:07	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 14:17	08/30/25 05:07	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 05:07	1
Toluene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 05:07	1
Xylenes, Total	ND		0.098	mg/Kg		08/28/25 14:17	08/30/25 05:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		15 - 150			08/28/25 14:17	08/30/25 05:07	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1200		97	mg/Kg		09/04/25 13:01	09/05/25 01:18	10
Motor Oil Range Organics [C28-C40]	1600		480	mg/Kg		09/04/25 13:01	09/05/25 01:18	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			09/04/25 13:01	09/05/25 01:18	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	820		50	mg/Kg		08/29/25 08:18	08/29/25 15:42	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-51 0'

Lab Sample ID: 885-32050-35

Date Collected: 08/25/25 11:15

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/28/25 14:17	08/30/25 05:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			08/28/25 14:17	08/30/25 05:31	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 14:17	08/30/25 05:31	1
Ethylbenzene	ND		0.050	mg/Kg		08/28/25 14:17	08/30/25 05:31	1
Toluene	ND		0.050	mg/Kg		08/28/25 14:17	08/30/25 05:31	1
Xylenes, Total	ND		0.10	mg/Kg		08/28/25 14:17	08/30/25 05:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		15 - 150			08/28/25 14:17	08/30/25 05:31	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	530		97	mg/Kg		09/04/25 13:01	09/05/25 01:31	10
Motor Oil Range Organics [C28-C40]	920		490	mg/Kg		09/04/25 13:01	09/05/25 01:31	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			09/04/25 13:01	09/05/25 01:31	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3300		50	mg/Kg		08/29/25 08:18	08/29/25 16:57	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-52 0'

Lab Sample ID: 885-32050-36

Date Collected: 08/25/25 11:13

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/28/25 14:17	08/30/25 05:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			08/28/25 14:17	08/30/25 05:55	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 14:17	08/30/25 05:55	1
Ethylbenzene	ND		0.048	mg/Kg		08/28/25 14:17	08/30/25 05:55	1
Toluene	ND		0.048	mg/Kg		08/28/25 14:17	08/30/25 05:55	1
Xylenes, Total	ND		0.095	mg/Kg		08/28/25 14:17	08/30/25 05:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		15 - 150			08/28/25 14:17	08/30/25 05:55	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9.7		9.7	mg/Kg		09/04/25 13:01	09/05/25 01:56	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/04/25 13:01	09/05/25 01:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			09/04/25 13:01	09/05/25 01:56	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5000		50	mg/Kg		08/29/25 08:18	08/29/25 17:08	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-53 0'

Lab Sample ID: 885-32050-37

Date Collected: 08/25/25 11:12

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6	mg/Kg		08/28/25 14:17	08/30/25 06:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			08/28/25 14:17	08/30/25 06:19	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/28/25 14:17	08/30/25 06:19	1
Ethylbenzene	ND		0.046	mg/Kg		08/28/25 14:17	08/30/25 06:19	1
Toluene	ND		0.046	mg/Kg		08/28/25 14:17	08/30/25 06:19	1
Xylenes, Total	ND		0.092	mg/Kg		08/28/25 14:17	08/30/25 06:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		15 - 150			08/28/25 14:17	08/30/25 06:19	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		09/04/25 13:01	09/05/25 02:08	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/04/25 13:01	09/05/25 02:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			09/04/25 13:01	09/05/25 02:08	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		50	mg/Kg		08/29/25 08:18	08/29/25 17:19	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-54 0'

Lab Sample ID: 885-32050-38

Date Collected: 08/25/25 11:10

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		08/28/25 14:17	08/30/25 06:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			08/28/25 14:17	08/30/25 06:42	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/28/25 14:17	08/30/25 06:42	1
Ethylbenzene	ND		0.047	mg/Kg		08/28/25 14:17	08/30/25 06:42	1
Toluene	ND		0.047	mg/Kg		08/28/25 14:17	08/30/25 06:42	1
Xylenes, Total	ND		0.093	mg/Kg		08/28/25 14:17	08/30/25 06:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		15 - 150			08/28/25 14:17	08/30/25 06:42	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		9.8	mg/Kg		09/04/25 13:01	09/05/25 02:20	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/04/25 13:01	09/05/25 02:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134			09/04/25 13:01	09/05/25 02:20	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3100		50	mg/Kg		08/29/25 08:18	08/29/25 17:30	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-55 0'

Lab Sample ID: 885-32050-39

Date Collected: 08/25/25 11:05

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 14:17	08/30/25 07:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			08/28/25 14:17	08/30/25 07:06	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 14:17	08/30/25 07:06	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 07:06	1
Toluene	ND		0.049	mg/Kg		08/28/25 14:17	08/30/25 07:06	1
Xylenes, Total	ND		0.098	mg/Kg		08/28/25 14:17	08/30/25 07:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		15 - 150			08/28/25 14:17	08/30/25 07:06	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		09/04/25 13:01	09/05/25 02:33	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/04/25 13:01	09/05/25 02:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			09/04/25 13:01	09/05/25 02:33	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		50	mg/Kg		08/29/25 08:18	08/29/25 17:41	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-56 0'

Lab Sample ID: 885-32050-40

Date Collected: 08/25/25 11:03

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		08/28/25 16:08	08/30/25 20:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			08/28/25 16:08	08/30/25 20:15	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/28/25 16:08	08/30/25 20:15	1
Ethylbenzene	ND		0.047	mg/Kg		08/28/25 16:08	08/30/25 20:15	1
Toluene	ND		0.047	mg/Kg		08/28/25 16:08	08/30/25 20:15	1
Xylenes, Total	ND		0.093	mg/Kg		08/28/25 16:08	08/30/25 20:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		15 - 150			08/28/25 16:08	08/30/25 20:15	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	37		9.8	mg/Kg		09/05/25 09:18	09/05/25 12:28	1
Motor Oil Range Organics [C28-C40]	74		49	mg/Kg		09/05/25 09:18	09/05/25 12:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			09/05/25 09:18	09/05/25 12:28	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4100		50	mg/Kg		08/29/25 08:18	08/29/25 17:52	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-57 0'

Lab Sample ID: 885-32050-41

Date Collected: 08/25/25 11:00

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		08/28/25 16:08	08/30/25 21:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			08/28/25 16:08	08/30/25 21:27	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 16:08	08/30/25 21:27	1
Ethylbenzene	ND		0.047	mg/Kg		08/28/25 16:08	08/30/25 21:27	1
Toluene	ND		0.047	mg/Kg		08/28/25 16:08	08/30/25 21:27	1
Xylenes, Total	ND		0.095	mg/Kg		08/28/25 16:08	08/30/25 21:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		15 - 150			08/28/25 16:08	08/30/25 21:27	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110		9.6	mg/Kg		09/05/25 09:18	09/05/25 12:40	1
Motor Oil Range Organics [C28-C40]	200		48	mg/Kg		09/05/25 09:18	09/05/25 12:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			09/05/25 09:18	09/05/25 12:40	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		50	mg/Kg		08/29/25 08:18	08/29/25 18:24	10

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-33474/1-A

Matrix: Solid

Analysis Batch: 33662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33474

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/28/25 12:13	08/30/25 03:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			08/28/25 12:13	08/30/25 03:04	1

Lab Sample ID: LCS 885-33474/2-A

Matrix: Solid

Analysis Batch: 33662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33474

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	21.2		mg/Kg		85	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	215		15 - 150				

Lab Sample ID: 885-32050-1 MS

Matrix: Solid

Analysis Batch: 33662

Client Sample ID: BS25-17 0'

Prep Type: Total/NA

Prep Batch: 33474

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	21.5		mg/Kg		86	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	214		15 - 150						

Lab Sample ID: 885-32050-1 MSD

Matrix: Solid

Analysis Batch: 33662

Client Sample ID: BS25-17 0'

Prep Type: Total/NA

Prep Batch: 33474

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	22.5		mg/Kg		91	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	219		15 - 150								

Lab Sample ID: MB 885-33486/1-A

Matrix: Solid

Analysis Batch: 33652

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33486

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/28/25 14:17	08/29/25 21:13	1

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 885-33486/1-A

Matrix: Solid

Analysis Batch: 33652

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33486

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	101		15 - 150		08/28/25 14:17	08/29/25 21:13	1			

Lab Sample ID: LCS 885-33486/2-A

Matrix: Solid

Analysis Batch: 33652

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33486

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			25.0	18.9		mg/Kg		76	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	186		15 - 150							

Lab Sample ID: 885-32050-20 MS

Matrix: Solid

Analysis Batch: 33652

Client Sample ID: BS25-36 0'

Prep Type: Total/NA

Prep Batch: 33486

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	ND		24.8	25.0		mg/Kg		101	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	210		15 - 150							

Lab Sample ID: 885-32050-20 MSD

Matrix: Solid

Analysis Batch: 33652

Client Sample ID: BS25-36 0'

Prep Type: Total/NA

Prep Batch: 33486

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	25.6		mg/Kg		103	70 - 130	3 20
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	208		15 - 150							

Lab Sample ID: MB 885-33512/1-A

Matrix: Solid

Analysis Batch: 33665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33512

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/28/25 16:08	08/30/25 19:51	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	103		15 - 150			08/28/25 16:08	08/30/25 19:51	1		

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 885-33512/2-A

Matrix: Solid

Analysis Batch: 33665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33512

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.9		mg/Kg		96	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	202		15 - 150								

Lab Sample ID: 885-32050-40 MS

Matrix: Solid

Analysis Batch: 33665

Client Sample ID: BS25-56 0'

Prep Type: Total/NA

Prep Batch: 33512

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10	ND		23.1	23.2		mg/Kg		101	70 - 130		
Surrogate	MS	MS									
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits								
	212		15 - 150								

Lab Sample ID: 885-32050-40 MSD

Matrix: Solid

Analysis Batch: 33665

Client Sample ID: BS25-56 0'

Prep Type: Total/NA

Prep Batch: 33512

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	ND		23.0	21.5		mg/Kg		93	70 - 130	8	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	209		15 - 150								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-33474/1-A

Matrix: Solid

Analysis Batch: 33661

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33474

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 12:13	08/30/25 03:04	1
Ethylbenzene	ND		0.050	mg/Kg		08/28/25 12:13	08/30/25 03:04	1
Toluene	ND		0.050	mg/Kg		08/28/25 12:13	08/30/25 03:04	1
Xylenes, Total	ND		0.10	mg/Kg		08/28/25 12:13	08/30/25 03:04	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			08/28/25 12:13	08/30/25 03:04	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-33474/3-A

Matrix: Solid

Analysis Batch: 33661

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33474

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.944		mg/Kg		94	70 - 130
Ethylbenzene	1.00	0.964		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	2.00	1.91		mg/Kg		96	70 - 130
o-Xylene	1.00	0.958		mg/Kg		96	70 - 130
Toluene	1.00	0.947		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		15 - 150

Lab Sample ID: 885-32050-2 MS

Matrix: Solid

Analysis Batch: 33661

Client Sample ID: BS25-18 0'

Prep Type: Total/NA

Prep Batch: 33474

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.997	0.918		mg/Kg		92	70 - 130
Ethylbenzene	ND		0.997	0.953		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	ND		1.99	1.90		mg/Kg		95	70 - 130
o-Xylene	ND		0.997	0.948		mg/Kg		95	70 - 130
Toluene	ND		0.997	0.939		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		15 - 150

Lab Sample ID: 885-32050-2 MSD

Matrix: Solid

Analysis Batch: 33661

Client Sample ID: BS25-18 0'

Prep Type: Total/NA

Prep Batch: 33474

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.998	0.940		mg/Kg		94	70 - 130	2	20
Ethylbenzene	ND		0.998	0.958		mg/Kg		96	70 - 130	1	20
m-Xylene & p-Xylene	ND		2.00	1.91		mg/Kg		96	70 - 130	1	20
o-Xylene	ND		0.998	0.971		mg/Kg		97	70 - 130	2	20
Toluene	ND		0.998	0.937		mg/Kg		94	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		15 - 150

Lab Sample ID: MB 885-33486/1-A

Matrix: Solid

Analysis Batch: 33651

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33486

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 14:17	08/29/25 21:13	1
Ethylbenzene	ND		0.050	mg/Kg		08/28/25 14:17	08/29/25 21:13	1
Toluene	ND		0.050	mg/Kg		08/28/25 14:17	08/29/25 21:13	1
Xylenes, Total	ND		0.10	mg/Kg		08/28/25 14:17	08/29/25 21:13	1

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-33486/1-A
Matrix: Solid
Analysis Batch: 33651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33486

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		15 - 150	08/28/25 14:17	08/29/25 21:13	1

Lab Sample ID: LCS 885-33486/3-A
Matrix: Solid
Analysis Batch: 33651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.854		mg/Kg		85	70 - 130
Ethylbenzene	1.00	0.843		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	2.00	1.79		mg/Kg		90	70 - 130
o-Xylene	1.00	0.847		mg/Kg		85	70 - 130
Toluene	1.00	0.849		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		15 - 150

Lab Sample ID: 885-32050-21 MS
Matrix: Solid
Analysis Batch: 33651

Client Sample ID: BS25-37 0'
Prep Type: Total/NA
Prep Batch: 33486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.995	0.842		mg/Kg		85	70 - 130
Ethylbenzene	ND		0.995	0.851		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	ND		1.99	1.76		mg/Kg		89	70 - 130
o-Xylene	ND		0.995	0.845		mg/Kg		85	70 - 130
Toluene	ND		0.995	0.849		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		15 - 150

Lab Sample ID: 885-32050-21 MSD
Matrix: Solid
Analysis Batch: 33651

Client Sample ID: BS25-37 0'
Prep Type: Total/NA
Prep Batch: 33486

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.996	0.897		mg/Kg		90	70 - 130	6	20
Ethylbenzene	ND		0.996	0.896		mg/Kg		90	70 - 130	5	20
m-Xylene & p-Xylene	ND		1.99	1.88		mg/Kg		94	70 - 130	7	20
o-Xylene	ND		0.996	0.890		mg/Kg		89	70 - 130	5	20
Toluene	ND		0.996	0.907		mg/Kg		91	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		15 - 150

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-33512/1-A

Matrix: Solid

Analysis Batch: 33666

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33512

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 16:08	08/30/25 19:51	1
Ethylbenzene	ND		0.050	mg/Kg		08/28/25 16:08	08/30/25 19:51	1
Toluene	ND		0.050	mg/Kg		08/28/25 16:08	08/30/25 19:51	1
Xylenes, Total	ND		0.10	mg/Kg		08/28/25 16:08	08/30/25 19:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150	08/28/25 16:08	08/30/25 19:51	1

Lab Sample ID: LCS 885-33512/3-A

Matrix: Solid

Analysis Batch: 33666

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.873		mg/Kg		87	70 - 130
Ethylbenzene	1.00	0.841		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	2.00	1.78		mg/Kg		89	70 - 130
o-Xylene	1.00	0.836		mg/Kg		84	70 - 130
Toluene	1.00	0.865		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		15 - 150

Lab Sample ID: 885-32050-41 MS

Matrix: Solid

Analysis Batch: 33666

Client Sample ID: BS25-57 0'

Prep Type: Total/NA

Prep Batch: 33512

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.947	0.808		mg/Kg		85	70 - 130
Ethylbenzene	ND		0.947	0.822		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	ND		1.89	1.72		mg/Kg		89	70 - 130
o-Xylene	ND		0.947	0.827		mg/Kg		86	70 - 130
Toluene	ND		0.947	0.827		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		15 - 150

Lab Sample ID: 885-32050-41 MSD

Matrix: Solid

Analysis Batch: 33666

Client Sample ID: BS25-57 0'

Prep Type: Total/NA

Prep Batch: 33512

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.937	0.823		mg/Kg		88	70 - 130	2	20
Ethylbenzene	ND		0.937	0.836		mg/Kg		87	70 - 130	2	20
m-Xylene & p-Xylene	ND		1.87	1.73		mg/Kg		90	70 - 130	0	20
o-Xylene	ND		0.937	0.826		mg/Kg		86	70 - 130	0	20
Toluene	ND		0.937	0.835		mg/Kg		88	70 - 130	1	20

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-32050-41 MSD

Matrix: Solid

Analysis Batch: 33666

Client Sample ID: BS25-57 0'

Prep Type: Total/NA

Prep Batch: 33512

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		15 - 150

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-33535/1-A

Matrix: Solid

Analysis Batch: 33782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33535

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		08/29/25 07:42	09/04/25 01:52	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/29/25 07:42	09/04/25 01:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			08/29/25 07:42	09/04/25 01:52	1

Lab Sample ID: LCS 885-33535/2-A

Matrix: Solid

Analysis Batch: 33689

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	49.8		mg/Kg		100	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	96		62 - 134				

Lab Sample ID: MB 885-33744/1-A

Matrix: Solid

Analysis Batch: 33782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33744

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/02/25 15:00	09/03/25 13:12	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/02/25 15:00	09/03/25 13:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	86		62 - 134			09/02/25 15:00	09/03/25 13:12	1

Lab Sample ID: LCS 885-33744/2-A

Matrix: Solid

Analysis Batch: 33782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	42.7		mg/Kg		85	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	88		62 - 134				

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QC Sample Results

Client: Vertex

Job ID: 885-32050-1

Project/Site: SDE 31 Federal CTB

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-33882/1-A

Matrix: Solid

Analysis Batch: 33853

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33882

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/04/25 13:01	09/04/25 23:39	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/04/25 13:01	09/04/25 23:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			09/04/25 13:01	09/04/25 23:39	1

Lab Sample ID: LCS 885-33882/2-A

Matrix: Solid

Analysis Batch: 33853

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	43.1		mg/Kg		86	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	97		62 - 134				

Lab Sample ID: 885-32050-39 MS

Matrix: Solid

Analysis Batch: 33853

Client Sample ID: BS25-55 0'

Prep Type: Total/NA

Prep Batch: 33882

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		48.2	32.3		mg/Kg		67	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	105		62 - 134						

Lab Sample ID: 885-32050-39 MSD

Matrix: Solid

Analysis Batch: 33853

Client Sample ID: BS25-55 0'

Prep Type: Total/NA

Prep Batch: 33882

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		47.0	30.9		mg/Kg		66	44 - 136	4	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	109		62 - 134								

Lab Sample ID: MB 885-33949/1-A

Matrix: Solid

Analysis Batch: 33954

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33949

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/05/25 09:18	09/05/25 12:04	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/05/25 09:18	09/05/25 12:04	1

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-33949/1-A
Matrix: Solid
Analysis Batch: 33954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33949

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Di-n-octyl phthalate (Surr)	101		62 - 134	09/05/25 09:18	09/05/25 12:04	1			

Lab Sample ID: LCS 885-33949/2-A
Matrix: Solid
Analysis Batch: 33954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33949

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	57.2		mg/Kg		114	51 - 148		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
Di-n-octyl phthalate (Surr)	99		62 - 134								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-33485/1-A
Matrix: Solid
Analysis Batch: 33483

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33485

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg		08/28/25 14:06	08/28/25 15:36	1

Lab Sample ID: LCS 885-33485/2-A
Matrix: Solid
Analysis Batch: 33483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33485

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			49.7	48.8		mg/Kg		98	90 - 110		

Lab Sample ID: MB 885-33536/1-A
Matrix: Solid
Analysis Batch: 33546

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33536

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg		08/29/25 07:48	08/29/25 09:28	1

Lab Sample ID: LCS 885-33536/2-A
Matrix: Solid
Analysis Batch: 33546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33536

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.3	50.0		mg/Kg		99	90 - 110		

Lab Sample ID: MB 885-33538/1-A
Matrix: Solid
Analysis Batch: 33546

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33538

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg		08/29/25 08:18	08/29/25 09:58	1

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-33538/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 33546				Prep Batch: 33538			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.2	49.5		mg/Kg		99	90 - 110

QC Association Summary

Client: Vertex

Job ID: 885-32050-1

Project/Site: SDE 31 Federal CTB

GC VOA

Prep Batch: 33474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-1	BS25-17 0'	Total/NA	Solid	5030C	
885-32050-2	BS25-18 0'	Total/NA	Solid	5030C	
885-32050-3	BS25-19 0'	Total/NA	Solid	5030C	
885-32050-4	BS25-20 0'	Total/NA	Solid	5030C	
885-32050-5	BS25-21 0'	Total/NA	Solid	5030C	
885-32050-6	BS25-22 0'	Total/NA	Solid	5030C	
885-32050-7	BS25-23 0'	Total/NA	Solid	5030C	
885-32050-8	BS25-24 0'	Total/NA	Solid	5030C	
885-32050-9	BS25-25 0'	Total/NA	Solid	5030C	
885-32050-10	BS25-26 0'	Total/NA	Solid	5030C	
885-32050-11	BS25-27 0'	Total/NA	Solid	5030C	
885-32050-12	BS25-28 0'	Total/NA	Solid	5030C	
885-32050-13	BS25-29 0'	Total/NA	Solid	5030C	
885-32050-14	BS25-30 0'	Total/NA	Solid	5030C	
885-32050-15	BS25-31 0'	Total/NA	Solid	5030C	
885-32050-16	BS25-32 0'	Total/NA	Solid	5030C	
885-32050-17	BS25-33 0'	Total/NA	Solid	5030C	
885-32050-18	BS25-34 0'	Total/NA	Solid	5030C	
885-32050-19	BS25-35 0'	Total/NA	Solid	5030C	
MB 885-33474/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-33474/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-33474/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-32050-1 MS	BS25-17 0'	Total/NA	Solid	5030C	
885-32050-1 MSD	BS25-17 0'	Total/NA	Solid	5030C	
885-32050-2 MS	BS25-18 0'	Total/NA	Solid	5030C	
885-32050-2 MSD	BS25-18 0'	Total/NA	Solid	5030C	

Prep Batch: 33486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-20	BS25-36 0'	Total/NA	Solid	5030C	
885-32050-21	BS25-37 0'	Total/NA	Solid	5030C	
885-32050-22	BS25-38 0'	Total/NA	Solid	5030C	
885-32050-23	BS25-39 0'	Total/NA	Solid	5030C	
885-32050-24	BS25-40 0'	Total/NA	Solid	5030C	
885-32050-25	BS25-41 0'	Total/NA	Solid	5030C	
885-32050-26	BS25-42 0'	Total/NA	Solid	5030C	
885-32050-27	BS25-43 0'	Total/NA	Solid	5030C	
885-32050-28	BS25-44 0'	Total/NA	Solid	5030C	
885-32050-29	BS25-45 0'	Total/NA	Solid	5030C	
885-32050-30	BS25-46 0'	Total/NA	Solid	5030C	
885-32050-31	BS25-47 0'	Total/NA	Solid	5030C	
885-32050-32	BS25-48 0'	Total/NA	Solid	5030C	
885-32050-33	BS25-49 0'	Total/NA	Solid	5030C	
885-32050-34	BS25-50 0'	Total/NA	Solid	5030C	
885-32050-35	BS25-51 0'	Total/NA	Solid	5030C	
885-32050-36	BS25-52 0'	Total/NA	Solid	5030C	
885-32050-37	BS25-53 0'	Total/NA	Solid	5030C	
885-32050-38	BS25-54 0'	Total/NA	Solid	5030C	
885-32050-39	BS25-55 0'	Total/NA	Solid	5030C	
MB 885-33486/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-33486/2-A	Lab Control Sample	Total/NA	Solid	5030C	

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QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

GC VOA (Continued)

Prep Batch: 33486 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-33486/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-32050-20 MS	BS25-36 0'	Total/NA	Solid	5030C	
885-32050-20 MSD	BS25-36 0'	Total/NA	Solid	5030C	
885-32050-21 MS	BS25-37 0'	Total/NA	Solid	5030C	
885-32050-21 MSD	BS25-37 0'	Total/NA	Solid	5030C	

Prep Batch: 33512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-40	BS25-56 0'	Total/NA	Solid	5030C	
885-32050-41	BS25-57 0'	Total/NA	Solid	5030C	
MB 885-33512/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-33512/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-33512/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-32050-40 MS	BS25-56 0'	Total/NA	Solid	5030C	
885-32050-40 MSD	BS25-56 0'	Total/NA	Solid	5030C	
885-32050-41 MS	BS25-57 0'	Total/NA	Solid	5030C	
885-32050-41 MSD	BS25-57 0'	Total/NA	Solid	5030C	

Analysis Batch: 33651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-20	BS25-36 0'	Total/NA	Solid	8021B	33486
885-32050-21	BS25-37 0'	Total/NA	Solid	8021B	33486
885-32050-22	BS25-38 0'	Total/NA	Solid	8021B	33486
885-32050-23	BS25-39 0'	Total/NA	Solid	8021B	33486
885-32050-24	BS25-40 0'	Total/NA	Solid	8021B	33486
885-32050-25	BS25-41 0'	Total/NA	Solid	8021B	33486
885-32050-26	BS25-42 0'	Total/NA	Solid	8021B	33486
885-32050-27	BS25-43 0'	Total/NA	Solid	8021B	33486
885-32050-28	BS25-44 0'	Total/NA	Solid	8021B	33486
885-32050-29	BS25-45 0'	Total/NA	Solid	8021B	33486
885-32050-30	BS25-46 0'	Total/NA	Solid	8021B	33486
885-32050-31	BS25-47 0'	Total/NA	Solid	8021B	33486
885-32050-32	BS25-48 0'	Total/NA	Solid	8021B	33486
885-32050-33	BS25-49 0'	Total/NA	Solid	8021B	33486
885-32050-34	BS25-50 0'	Total/NA	Solid	8021B	33486
885-32050-35	BS25-51 0'	Total/NA	Solid	8021B	33486
885-32050-36	BS25-52 0'	Total/NA	Solid	8021B	33486
885-32050-37	BS25-53 0'	Total/NA	Solid	8021B	33486
885-32050-38	BS25-54 0'	Total/NA	Solid	8021B	33486
885-32050-39	BS25-55 0'	Total/NA	Solid	8021B	33486
MB 885-33486/1-A	Method Blank	Total/NA	Solid	8021B	33486
LCS 885-33486/3-A	Lab Control Sample	Total/NA	Solid	8021B	33486
885-32050-21 MS	BS25-37 0'	Total/NA	Solid	8021B	33486
885-32050-21 MSD	BS25-37 0'	Total/NA	Solid	8021B	33486

Analysis Batch: 33652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-20	BS25-36 0'	Total/NA	Solid	8015M/D	33486
885-32050-21	BS25-37 0'	Total/NA	Solid	8015M/D	33486
885-32050-22	BS25-38 0'	Total/NA	Solid	8015M/D	33486
885-32050-23	BS25-39 0'	Total/NA	Solid	8015M/D	33486

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QC Association Summary

Client: Vertex

Job ID: 885-32050-1

Project/Site: SDE 31 Federal CTB

GC VOA (Continued)

Analysis Batch: 33652 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-24	BS25-40 0'	Total/NA	Solid	8015M/D	33486
885-32050-25	BS25-41 0'	Total/NA	Solid	8015M/D	33486
885-32050-26	BS25-42 0'	Total/NA	Solid	8015M/D	33486
885-32050-27	BS25-43 0'	Total/NA	Solid	8015M/D	33486
885-32050-28	BS25-44 0'	Total/NA	Solid	8015M/D	33486
885-32050-29	BS25-45 0'	Total/NA	Solid	8015M/D	33486
885-32050-30	BS25-46 0'	Total/NA	Solid	8015M/D	33486
885-32050-31	BS25-47 0'	Total/NA	Solid	8015M/D	33486
885-32050-32	BS25-48 0'	Total/NA	Solid	8015M/D	33486
885-32050-33	BS25-49 0'	Total/NA	Solid	8015M/D	33486
885-32050-34	BS25-50 0'	Total/NA	Solid	8015M/D	33486
885-32050-35	BS25-51 0'	Total/NA	Solid	8015M/D	33486
885-32050-36	BS25-52 0'	Total/NA	Solid	8015M/D	33486
885-32050-37	BS25-53 0'	Total/NA	Solid	8015M/D	33486
885-32050-38	BS25-54 0'	Total/NA	Solid	8015M/D	33486
885-32050-39	BS25-55 0'	Total/NA	Solid	8015M/D	33486
MB 885-33486/1-A	Method Blank	Total/NA	Solid	8015M/D	33486
LCS 885-33486/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33486
885-32050-20 MS	BS25-36 0'	Total/NA	Solid	8015M/D	33486
885-32050-20 MSD	BS25-36 0'	Total/NA	Solid	8015M/D	33486

Analysis Batch: 33661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-1	BS25-17 0'	Total/NA	Solid	8021B	33474
885-32050-2	BS25-18 0'	Total/NA	Solid	8021B	33474
885-32050-3	BS25-19 0'	Total/NA	Solid	8021B	33474
885-32050-4	BS25-20 0'	Total/NA	Solid	8021B	33474
885-32050-5	BS25-21 0'	Total/NA	Solid	8021B	33474
885-32050-6	BS25-22 0'	Total/NA	Solid	8021B	33474
885-32050-7	BS25-23 0'	Total/NA	Solid	8021B	33474
885-32050-8	BS25-24 0'	Total/NA	Solid	8021B	33474
885-32050-9	BS25-25 0'	Total/NA	Solid	8021B	33474
885-32050-10	BS25-26 0'	Total/NA	Solid	8021B	33474
885-32050-11	BS25-27 0'	Total/NA	Solid	8021B	33474
885-32050-12	BS25-28 0'	Total/NA	Solid	8021B	33474
885-32050-13	BS25-29 0'	Total/NA	Solid	8021B	33474
885-32050-14	BS25-30 0'	Total/NA	Solid	8021B	33474
885-32050-15	BS25-31 0'	Total/NA	Solid	8021B	33474
885-32050-16	BS25-32 0'	Total/NA	Solid	8021B	33474
885-32050-17	BS25-33 0'	Total/NA	Solid	8021B	33474
885-32050-18	BS25-34 0'	Total/NA	Solid	8021B	33474
885-32050-19	BS25-35 0'	Total/NA	Solid	8021B	33474
MB 885-33474/1-A	Method Blank	Total/NA	Solid	8021B	33474
LCS 885-33474/3-A	Lab Control Sample	Total/NA	Solid	8021B	33474
885-32050-2 MS	BS25-18 0'	Total/NA	Solid	8021B	33474
885-32050-2 MSD	BS25-18 0'	Total/NA	Solid	8021B	33474

Analysis Batch: 33662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-1	BS25-17 0'	Total/NA	Solid	8015M/D	33474
885-32050-2	BS25-18 0'	Total/NA	Solid	8015M/D	33474

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

GC VOA (Continued)

Analysis Batch: 33662 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-3	BS25-19 0'	Total/NA	Solid	8015M/D	33474
885-32050-4	BS25-20 0'	Total/NA	Solid	8015M/D	33474
885-32050-5	BS25-21 0'	Total/NA	Solid	8015M/D	33474
885-32050-6	BS25-22 0'	Total/NA	Solid	8015M/D	33474
885-32050-7	BS25-23 0'	Total/NA	Solid	8015M/D	33474
885-32050-8	BS25-24 0'	Total/NA	Solid	8015M/D	33474
885-32050-9	BS25-25 0'	Total/NA	Solid	8015M/D	33474
885-32050-10	BS25-26 0'	Total/NA	Solid	8015M/D	33474
885-32050-11	BS25-27 0'	Total/NA	Solid	8015M/D	33474
885-32050-12	BS25-28 0'	Total/NA	Solid	8015M/D	33474
885-32050-13	BS25-29 0'	Total/NA	Solid	8015M/D	33474
885-32050-14	BS25-30 0'	Total/NA	Solid	8015M/D	33474
885-32050-15	BS25-31 0'	Total/NA	Solid	8015M/D	33474
885-32050-16	BS25-32 0'	Total/NA	Solid	8015M/D	33474
885-32050-17	BS25-33 0'	Total/NA	Solid	8015M/D	33474
885-32050-18	BS25-34 0'	Total/NA	Solid	8015M/D	33474
885-32050-19	BS25-35 0'	Total/NA	Solid	8015M/D	33474
MB 885-33474/1-A	Method Blank	Total/NA	Solid	8015M/D	33474
LCS 885-33474/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33474
885-32050-1 MS	BS25-17 0'	Total/NA	Solid	8015M/D	33474
885-32050-1 MSD	BS25-17 0'	Total/NA	Solid	8015M/D	33474

Analysis Batch: 33665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-40	BS25-56 0'	Total/NA	Solid	8015M/D	33512
885-32050-41	BS25-57 0'	Total/NA	Solid	8015M/D	33512
MB 885-33512/1-A	Method Blank	Total/NA	Solid	8015M/D	33512
LCS 885-33512/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33512
885-32050-40 MS	BS25-56 0'	Total/NA	Solid	8015M/D	33512
885-32050-40 MSD	BS25-56 0'	Total/NA	Solid	8015M/D	33512

Analysis Batch: 33666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-40	BS25-56 0'	Total/NA	Solid	8021B	33512
885-32050-41	BS25-57 0'	Total/NA	Solid	8021B	33512
MB 885-33512/1-A	Method Blank	Total/NA	Solid	8021B	33512
LCS 885-33512/3-A	Lab Control Sample	Total/NA	Solid	8021B	33512
885-32050-41 MS	BS25-57 0'	Total/NA	Solid	8021B	33512
885-32050-41 MSD	BS25-57 0'	Total/NA	Solid	8021B	33512

GC Semi VOA

Prep Batch: 33535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-1	BS25-17 0'	Total/NA	Solid	SHAKE	
885-32050-2	BS25-18 0'	Total/NA	Solid	SHAKE	
885-32050-3	BS25-19 0'	Total/NA	Solid	SHAKE	
885-32050-4	BS25-20 0'	Total/NA	Solid	SHAKE	
885-32050-5	BS25-21 0'	Total/NA	Solid	SHAKE	
885-32050-6	BS25-22 0'	Total/NA	Solid	SHAKE	
885-32050-7	BS25-23 0'	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

GC Semi VOA (Continued)

Prep Batch: 33535 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-8	BS25-24 0'	Total/NA	Solid	SHAKE	
885-32050-9	BS25-25 0'	Total/NA	Solid	SHAKE	
885-32050-10	BS25-26 0'	Total/NA	Solid	SHAKE	
885-32050-11	BS25-27 0'	Total/NA	Solid	SHAKE	
885-32050-12	BS25-28 0'	Total/NA	Solid	SHAKE	
885-32050-13	BS25-29 0'	Total/NA	Solid	SHAKE	
885-32050-14	BS25-30 0'	Total/NA	Solid	SHAKE	
885-32050-15	BS25-31 0'	Total/NA	Solid	SHAKE	
885-32050-16	BS25-32 0'	Total/NA	Solid	SHAKE	
885-32050-17	BS25-33 0'	Total/NA	Solid	SHAKE	
885-32050-18	BS25-34 0'	Total/NA	Solid	SHAKE	
885-32050-19	BS25-35 0'	Total/NA	Solid	SHAKE	
MB 885-33535/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-33535/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 33689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-1	BS25-17 0'	Total/NA	Solid	8015M/D	33535
885-32050-2	BS25-18 0'	Total/NA	Solid	8015M/D	33535
885-32050-4	BS25-20 0'	Total/NA	Solid	8015M/D	33535
885-32050-7	BS25-23 0'	Total/NA	Solid	8015M/D	33535
885-32050-8	BS25-24 0'	Total/NA	Solid	8015M/D	33535
885-32050-9	BS25-25 0'	Total/NA	Solid	8015M/D	33535
885-32050-10	BS25-26 0'	Total/NA	Solid	8015M/D	33535
885-32050-11	BS25-27 0'	Total/NA	Solid	8015M/D	33535
885-32050-12	BS25-28 0'	Total/NA	Solid	8015M/D	33535
885-32050-16	BS25-32 0'	Total/NA	Solid	8015M/D	33535
885-32050-17	BS25-33 0'	Total/NA	Solid	8015M/D	33535
885-32050-19	BS25-35 0'	Total/NA	Solid	8015M/D	33535
LCS 885-33535/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33535

Prep Batch: 33744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-20	BS25-36 0'	Total/NA	Solid	SHAKE	
885-32050-21	BS25-37 0'	Total/NA	Solid	SHAKE	
885-32050-22	BS25-38 0'	Total/NA	Solid	SHAKE	
885-32050-23	BS25-39 0'	Total/NA	Solid	SHAKE	
885-32050-24	BS25-40 0'	Total/NA	Solid	SHAKE	
885-32050-25	BS25-41 0'	Total/NA	Solid	SHAKE	
885-32050-26	BS25-42 0'	Total/NA	Solid	SHAKE	
885-32050-27	BS25-43 0'	Total/NA	Solid	SHAKE	
MB 885-33744/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-33744/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 33782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-3	BS25-19 0'	Total/NA	Solid	8015M/D	33535
885-32050-5	BS25-21 0'	Total/NA	Solid	8015M/D	33535
885-32050-6	BS25-22 0'	Total/NA	Solid	8015M/D	33535
885-32050-13	BS25-29 0'	Total/NA	Solid	8015M/D	33535
885-32050-14	BS25-30 0'	Total/NA	Solid	8015M/D	33535

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

GC Semi VOA (Continued)

Analysis Batch: 33782 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-15	BS25-31 0'	Total/NA	Solid	8015M/D	33535
885-32050-18	BS25-34 0'	Total/NA	Solid	8015M/D	33535
885-32050-21	BS25-37 0'	Total/NA	Solid	8015M/D	33744
885-32050-22	BS25-38 0'	Total/NA	Solid	8015M/D	33744
885-32050-23	BS25-39 0'	Total/NA	Solid	8015M/D	33744
885-32050-24	BS25-40 0'	Total/NA	Solid	8015M/D	33744
885-32050-25	BS25-41 0'	Total/NA	Solid	8015M/D	33744
885-32050-26	BS25-42 0'	Total/NA	Solid	8015M/D	33744
MB 885-33535/1-A	Method Blank	Total/NA	Solid	8015M/D	33535
MB 885-33744/1-A	Method Blank	Total/NA	Solid	8015M/D	33744
LCS 885-33744/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33744

Analysis Batch: 33853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-28	BS25-44 0'	Total/NA	Solid	8015M/D	33882
885-32050-29	BS25-45 0'	Total/NA	Solid	8015M/D	33882
885-32050-30	BS25-46 0'	Total/NA	Solid	8015M/D	33882
885-32050-31	BS25-47 0'	Total/NA	Solid	8015M/D	33882
885-32050-33	BS25-49 0'	Total/NA	Solid	8015M/D	33882
885-32050-34	BS25-50 0'	Total/NA	Solid	8015M/D	33882
885-32050-35	BS25-51 0'	Total/NA	Solid	8015M/D	33882
885-32050-36	BS25-52 0'	Total/NA	Solid	8015M/D	33882
885-32050-37	BS25-53 0'	Total/NA	Solid	8015M/D	33882
885-32050-38	BS25-54 0'	Total/NA	Solid	8015M/D	33882
885-32050-39	BS25-55 0'	Total/NA	Solid	8015M/D	33882
MB 885-33882/1-A	Method Blank	Total/NA	Solid	8015M/D	33882
LCS 885-33882/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33882
885-32050-39 MS	BS25-55 0'	Total/NA	Solid	8015M/D	33882
885-32050-39 MSD	BS25-55 0'	Total/NA	Solid	8015M/D	33882

Analysis Batch: 33856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-20	BS25-36 0'	Total/NA	Solid	8015M/D	33744
885-32050-20	BS25-36 0'	Total/NA	Solid	8015M/D	33744
885-32050-27	BS25-43 0'	Total/NA	Solid	8015M/D	33744
885-32050-27	BS25-43 0'	Total/NA	Solid	8015M/D	33744

Prep Batch: 33882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-28	BS25-44 0'	Total/NA	Solid	SHAKE	
885-32050-29	BS25-45 0'	Total/NA	Solid	SHAKE	
885-32050-30	BS25-46 0'	Total/NA	Solid	SHAKE	
885-32050-31	BS25-47 0'	Total/NA	Solid	SHAKE	
885-32050-32	BS25-48 0'	Total/NA	Solid	SHAKE	
885-32050-33	BS25-49 0'	Total/NA	Solid	SHAKE	
885-32050-34	BS25-50 0'	Total/NA	Solid	SHAKE	
885-32050-35	BS25-51 0'	Total/NA	Solid	SHAKE	
885-32050-36	BS25-52 0'	Total/NA	Solid	SHAKE	
885-32050-37	BS25-53 0'	Total/NA	Solid	SHAKE	
885-32050-38	BS25-54 0'	Total/NA	Solid	SHAKE	
885-32050-39	BS25-55 0'	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

GC Semi VOA (Continued)

Prep Batch: 33882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-33882/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-33882/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-32050-39 MS	BS25-55 0'	Total/NA	Solid	SHAKE	
885-32050-39 MSD	BS25-55 0'	Total/NA	Solid	SHAKE	

Prep Batch: 33949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-40	BS25-56 0'	Total/NA	Solid	SHAKE	
885-32050-41	BS25-57 0'	Total/NA	Solid	SHAKE	
MB 885-33949/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-33949/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 33954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-32	BS25-48 0'	Total/NA	Solid	8015M/D	33882
885-32050-40	BS25-56 0'	Total/NA	Solid	8015M/D	33949
885-32050-41	BS25-57 0'	Total/NA	Solid	8015M/D	33949
MB 885-33949/1-A	Method Blank	Total/NA	Solid	8015M/D	33949
LCS 885-33949/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33949

HPLC/IC

Analysis Batch: 33483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-1	BS25-17 0'	Total/NA	Solid	300.0	33485
885-32050-2	BS25-18 0'	Total/NA	Solid	300.0	33485
885-32050-3	BS25-19 0'	Total/NA	Solid	300.0	33485
885-32050-4	BS25-20 0'	Total/NA	Solid	300.0	33485
885-32050-5	BS25-21 0'	Total/NA	Solid	300.0	33485
885-32050-6	BS25-22 0'	Total/NA	Solid	300.0	33485
885-32050-7	BS25-23 0'	Total/NA	Solid	300.0	33485
885-32050-8	BS25-24 0'	Total/NA	Solid	300.0	33485
885-32050-9	BS25-25 0'	Total/NA	Solid	300.0	33485
885-32050-10	BS25-26 0'	Total/NA	Solid	300.0	33485
885-32050-11	BS25-27 0'	Total/NA	Solid	300.0	33485
885-32050-12	BS25-28 0'	Total/NA	Solid	300.0	33485
MB 885-33485/1-A	Method Blank	Total/NA	Solid	300.0	33485
LCS 885-33485/2-A	Lab Control Sample	Total/NA	Solid	300.0	33485

Prep Batch: 33485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-1	BS25-17 0'	Total/NA	Solid	300_Prep	
885-32050-2	BS25-18 0'	Total/NA	Solid	300_Prep	
885-32050-3	BS25-19 0'	Total/NA	Solid	300_Prep	
885-32050-4	BS25-20 0'	Total/NA	Solid	300_Prep	
885-32050-5	BS25-21 0'	Total/NA	Solid	300_Prep	
885-32050-6	BS25-22 0'	Total/NA	Solid	300_Prep	
885-32050-7	BS25-23 0'	Total/NA	Solid	300_Prep	
885-32050-8	BS25-24 0'	Total/NA	Solid	300_Prep	
885-32050-9	BS25-25 0'	Total/NA	Solid	300_Prep	
885-32050-10	BS25-26 0'	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

HPLC/IC (Continued)

Prep Batch: 33485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-11	BS25-27 0'	Total/NA	Solid	300_Prep	
885-32050-12	BS25-28 0'	Total/NA	Solid	300_Prep	
MB 885-33485/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-33485/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 33536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-13	BS25-29 0'	Total/NA	Solid	300_Prep	
885-32050-14	BS25-30 0'	Total/NA	Solid	300_Prep	
885-32050-15	BS25-31 0'	Total/NA	Solid	300_Prep	
885-32050-16	BS25-32 0'	Total/NA	Solid	300_Prep	
885-32050-17	BS25-33 0'	Total/NA	Solid	300_Prep	
885-32050-18	BS25-34 0'	Total/NA	Solid	300_Prep	
885-32050-19	BS25-35 0'	Total/NA	Solid	300_Prep	
885-32050-20	BS25-36 0'	Total/NA	Solid	300_Prep	
885-32050-21	BS25-37 0'	Total/NA	Solid	300_Prep	
885-32050-22	BS25-38 0'	Total/NA	Solid	300_Prep	
885-32050-23	BS25-39 0'	Total/NA	Solid	300_Prep	
885-32050-24	BS25-40 0'	Total/NA	Solid	300_Prep	
885-32050-25	BS25-41 0'	Total/NA	Solid	300_Prep	
885-32050-26	BS25-42 0'	Total/NA	Solid	300_Prep	
885-32050-27	BS25-43 0'	Total/NA	Solid	300_Prep	
885-32050-28	BS25-44 0'	Total/NA	Solid	300_Prep	
885-32050-29	BS25-45 0'	Total/NA	Solid	300_Prep	
885-32050-30	BS25-46 0'	Total/NA	Solid	300_Prep	
885-32050-31	BS25-47 0'	Total/NA	Solid	300_Prep	
885-32050-32	BS25-48 0'	Total/NA	Solid	300_Prep	
MB 885-33536/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-33536/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 33538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-33	BS25-49 0'	Total/NA	Solid	300_Prep	
885-32050-34	BS25-50 0'	Total/NA	Solid	300_Prep	
885-32050-35	BS25-51 0'	Total/NA	Solid	300_Prep	
885-32050-36	BS25-52 0'	Total/NA	Solid	300_Prep	
885-32050-37	BS25-53 0'	Total/NA	Solid	300_Prep	
885-32050-38	BS25-54 0'	Total/NA	Solid	300_Prep	
885-32050-39	BS25-55 0'	Total/NA	Solid	300_Prep	
885-32050-40	BS25-56 0'	Total/NA	Solid	300_Prep	
885-32050-41	BS25-57 0'	Total/NA	Solid	300_Prep	
MB 885-33538/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-33538/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 33546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-13	BS25-29 0'	Total/NA	Solid	300.0	33536
885-32050-14	BS25-30 0'	Total/NA	Solid	300.0	33536
885-32050-15	BS25-31 0'	Total/NA	Solid	300.0	33536
885-32050-16	BS25-32 0'	Total/NA	Solid	300.0	33536
885-32050-17	BS25-33 0'	Total/NA	Solid	300.0	33536

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

HPLC/IC (Continued)

Analysis Batch: 33546 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32050-18	BS25-34 0'	Total/NA	Solid	300.0	33536
885-32050-19	BS25-35 0'	Total/NA	Solid	300.0	33536
885-32050-20	BS25-36 0'	Total/NA	Solid	300.0	33536
885-32050-21	BS25-37 0'	Total/NA	Solid	300.0	33536
885-32050-22	BS25-38 0'	Total/NA	Solid	300.0	33536
885-32050-23	BS25-39 0'	Total/NA	Solid	300.0	33536
885-32050-24	BS25-40 0'	Total/NA	Solid	300.0	33536
885-32050-25	BS25-41 0'	Total/NA	Solid	300.0	33536
885-32050-26	BS25-42 0'	Total/NA	Solid	300.0	33536
885-32050-27	BS25-43 0'	Total/NA	Solid	300.0	33536
885-32050-28	BS25-44 0'	Total/NA	Solid	300.0	33536
885-32050-29	BS25-45 0'	Total/NA	Solid	300.0	33536
885-32050-30	BS25-46 0'	Total/NA	Solid	300.0	33536
885-32050-31	BS25-47 0'	Total/NA	Solid	300.0	33536
885-32050-32	BS25-48 0'	Total/NA	Solid	300.0	33536
885-32050-33	BS25-49 0'	Total/NA	Solid	300.0	33538
885-32050-34	BS25-50 0'	Total/NA	Solid	300.0	33538
885-32050-35	BS25-51 0'	Total/NA	Solid	300.0	33538
885-32050-36	BS25-52 0'	Total/NA	Solid	300.0	33538
885-32050-37	BS25-53 0'	Total/NA	Solid	300.0	33538
885-32050-38	BS25-54 0'	Total/NA	Solid	300.0	33538
885-32050-39	BS25-55 0'	Total/NA	Solid	300.0	33538
885-32050-40	BS25-56 0'	Total/NA	Solid	300.0	33538
885-32050-41	BS25-57 0'	Total/NA	Solid	300.0	33538
MB 885-33536/1-A	Method Blank	Total/NA	Solid	300.0	33536
MB 885-33538/1-A	Method Blank	Total/NA	Solid	300.0	33538
LCS 885-33536/2-A	Lab Control Sample	Total/NA	Solid	300.0	33536
LCS 885-33538/2-A	Lab Control Sample	Total/NA	Solid	300.0	33538

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-17 0'

Lab Sample ID: 885-32050-1

Date Collected: 08/25/25 10:48

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 03:26
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 03:26
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 11:54
Total/NA	Prep	300_Prep			33485	RC	EET ALB	08/28/25 14:06
Total/NA	Analysis	300.0		10	33483	KB	EET ALB	08/28/25 18:53

Client Sample ID: BS25-18 0'

Lab Sample ID: 885-32050-2

Date Collected: 08/25/25 10:50

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 04:31
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 04:31
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		10	33689	DH	EET ALB	09/02/25 12:05
Total/NA	Prep	300_Prep			33485	RC	EET ALB	08/28/25 14:06
Total/NA	Analysis	300.0		10	33483	KB	EET ALB	08/28/25 19:03

Client Sample ID: BS25-19 0'

Lab Sample ID: 885-32050-3

Date Collected: 08/25/25 10:52

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 05:59
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 05:59
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/04/25 02:16
Total/NA	Prep	300_Prep			33485	RC	EET ALB	08/28/25 14:06
Total/NA	Analysis	300.0		10	33483	KB	EET ALB	08/28/25 19:13

Client Sample ID: BS25-20 0'

Lab Sample ID: 885-32050-4

Date Collected: 08/25/25 10:56

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 06:21

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-20 0'

Lab Sample ID: 885-32050-4

Date Collected: 08/25/25 10:56

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 06:21
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 12:28
Total/NA	Prep	300_Prep			33485	RC	EET ALB	08/28/25 14:06
Total/NA	Analysis	300.0		10	33483	KB	EET ALB	08/28/25 19:23

Client Sample ID: BS25-21 0'

Lab Sample ID: 885-32050-5

Date Collected: 08/25/25 11:00

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 06:43
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 06:43
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/04/25 02:39
Total/NA	Prep	300_Prep			33485	RC	EET ALB	08/28/25 14:06
Total/NA	Analysis	300.0		10	33483	KB	EET ALB	08/28/25 19:33

Client Sample ID: BS25-22 0'

Lab Sample ID: 885-32050-6

Date Collected: 08/25/25 11:12

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 07:04
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 07:04
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/04/25 03:03
Total/NA	Prep	300_Prep			33485	RC	EET ALB	08/28/25 14:06
Total/NA	Analysis	300.0		10	33483	KB	EET ALB	08/28/25 19:42

Client Sample ID: BS25-23 0'

Lab Sample ID: 885-32050-7

Date Collected: 08/25/25 11:18

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 07:26
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 07:26

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-23 0'

Lab Sample ID: 885-32050-7

Date Collected: 08/25/25 11:18

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 13:02
Total/NA	Prep	300_Prep			33485	RC	EET ALB	08/28/25 14:06
Total/NA	Analysis	300.0		10	33483	KB	EET ALB	08/28/25 19:52

Client Sample ID: BS25-24 0'

Lab Sample ID: 885-32050-8

Date Collected: 08/25/25 11:23

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 07:48
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 07:48
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 13:25
Total/NA	Prep	300_Prep			33485	RC	EET ALB	08/28/25 14:06
Total/NA	Analysis	300.0		10	33483	KB	EET ALB	08/28/25 20:02

Client Sample ID: BS25-25 0'

Lab Sample ID: 885-32050-9

Date Collected: 08/25/25 11:27

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 08:09
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 08:09
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 13:36
Total/NA	Prep	300_Prep			33485	RC	EET ALB	08/28/25 14:06
Total/NA	Analysis	300.0		10	33483	KB	EET ALB	08/28/25 20:12

Client Sample ID: BS25-26 0'

Lab Sample ID: 885-32050-10

Date Collected: 08/25/25 11:39

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 08:52
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 08:52
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 13:48

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-26 0'

Lab Sample ID: 885-32050-10

Date Collected: 08/25/25 11:39

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			33485	RC	EET ALB	08/28/25 14:06
Total/NA	Analysis	300.0		10	33483	KB	EET ALB	08/28/25 20:22

Client Sample ID: BS25-27 0'

Lab Sample ID: 885-32050-11

Date Collected: 08/25/25 11:43

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 09:14
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 09:14
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 13:59
Total/NA	Prep	300_Prep			33485	RC	EET ALB	08/28/25 14:06
Total/NA	Analysis	300.0		10	33483	KB	EET ALB	08/28/25 20:51

Client Sample ID: BS25-28 0'

Lab Sample ID: 885-32050-12

Date Collected: 08/25/25 11:46

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 09:36
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 09:36
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 14:11
Total/NA	Prep	300_Prep			33485	RC	EET ALB	08/28/25 14:06
Total/NA	Analysis	300.0		10	33483	KB	EET ALB	08/28/25 21:01

Client Sample ID: BS25-29 0'

Lab Sample ID: 885-32050-13

Date Collected: 08/25/25 11:52

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 09:58
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 09:58
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		10	33782	BZR	EET ALB	09/04/25 03:27
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 10:27

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-30 0'

Lab Sample ID: 885-32050-14

Date Collected: 08/25/25 11:56

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 10:20
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 10:20
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/04/25 03:51
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 11:00

Client Sample ID: BS25-31 0'

Lab Sample ID: 885-32050-15

Date Collected: 08/25/25 12:00

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 10:41
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 10:41
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/04/25 04:14
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 11:54

Client Sample ID: BS25-32 0'

Lab Sample ID: 885-32050-16

Date Collected: 08/25/25 12:05

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 11:03
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 11:03
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 14:57
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 12:05

Client Sample ID: BS25-33 0'

Lab Sample ID: 885-32050-17

Date Collected: 08/25/25 12:08

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 11:25

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-33 0'

Lab Sample ID: 885-32050-17

Date Collected: 08/25/25 12:08

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 11:25
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 15:08
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 12:16

Client Sample ID: BS25-34 0'

Lab Sample ID: 885-32050-18

Date Collected: 08/25/25 12:13

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 11:47
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 11:47
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/04/25 04:38
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 12:26

Client Sample ID: BS25-35 0'

Lab Sample ID: 885-32050-19

Date Collected: 08/25/25 12:18

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8015M/D		1	33662	AT	EET ALB	08/30/25 12:08
Total/NA	Prep	5030C			33474	KLS	EET ALB	08/28/25 12:13
Total/NA	Analysis	8021B		1	33661	AT	EET ALB	08/30/25 12:08
Total/NA	Prep	SHAKE			33535	JM	EET ALB	08/29/25 07:42
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 15:31
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 12:37

Client Sample ID: BS25-36 0'

Lab Sample ID: 885-32050-20

Date Collected: 08/25/25 12:15

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/29/25 21:37
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/29/25 21:37

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-36 0'

Lab Sample ID: 885-32050-20

Date Collected: 08/25/25 12:15

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			33744	BZR	EET ALB	09/02/25 15:01
Total/NA	Analysis	8015M/D		2	33856	EM	EET ALB	09/04/25 14:54
Total/NA	Prep	SHAKE			33744	BZR	EET ALB	09/02/25 15:01
Total/NA	Analysis	8015M/D		1	33856	EM	EET ALB	09/04/25 16:29
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 12:48

Client Sample ID: BS25-37 0'

Lab Sample ID: 885-32050-21

Date Collected: 08/25/25 12:10

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/29/25 22:48
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/29/25 22:48
Total/NA	Prep	SHAKE			33744	BZR	EET ALB	09/02/25 15:01
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/03/25 16:45
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 12:59

Client Sample ID: BS25-38 0'

Lab Sample ID: 885-32050-22

Date Collected: 08/25/25 12:08

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/29/25 23:58
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/29/25 23:58
Total/NA	Prep	SHAKE			33744	BZR	EET ALB	09/02/25 15:01
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/03/25 17:09
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 13:10

Client Sample ID: BS25-39 0'

Lab Sample ID: 885-32050-23

Date Collected: 08/25/25 12:05

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 00:22
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 00:22

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-39 0'
Date Collected: 08/25/25 12:05
Date Received: 08/28/25 07:50

Lab Sample ID: 885-32050-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			33744	BZR	EET ALB	09/02/25 15:01
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/03/25 17:32
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 13:21

Client Sample ID: BS25-40 0'
Date Collected: 08/25/25 11:57
Date Received: 08/28/25 07:50

Lab Sample ID: 885-32050-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 00:46
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 00:46
Total/NA	Prep	SHAKE			33744	BZR	EET ALB	09/02/25 15:01
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/03/25 18:20
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 13:32

Client Sample ID: BS25-41 0'
Date Collected: 08/25/25 11:55
Date Received: 08/28/25 07:50

Lab Sample ID: 885-32050-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 01:10
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 01:10
Total/NA	Prep	SHAKE			33744	BZR	EET ALB	09/02/25 15:01
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/03/25 18:44
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 14:04

Client Sample ID: BS25-42 0'
Date Collected: 08/25/25 11:50
Date Received: 08/28/25 07:50

Lab Sample ID: 885-32050-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 01:34
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 01:34
Total/NA	Prep	SHAKE			33744	BZR	EET ALB	09/02/25 15:01
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/03/25 19:07

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-42 0'
Date Collected: 08/25/25 11:50
Date Received: 08/28/25 07:50

Lab Sample ID: 885-32050-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 14:15

Client Sample ID: BS25-43 0'
Date Collected: 08/25/25 11:43
Date Received: 08/28/25 07:50

Lab Sample ID: 885-32050-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 01:58
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 01:58
Total/NA	Prep	SHAKE			33744	BZR	EET ALB	09/02/25 15:01
Total/NA	Analysis	8015M/D		2	33856	EM	EET ALB	09/04/25 15:18
Total/NA	Prep	SHAKE			33744	BZR	EET ALB	09/02/25 15:01
Total/NA	Analysis	8015M/D		1	33856	EM	EET ALB	09/04/25 17:16
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 14:26

Client Sample ID: BS25-44 0'
Date Collected: 08/25/25 11:39
Date Received: 08/28/25 07:50

Lab Sample ID: 885-32050-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 02:21
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 02:21
Total/NA	Prep	SHAKE			33882	DR	EET ALB	09/04/25 13:01
Total/NA	Analysis	8015M/D		1	33853	EM	EET ALB	09/05/25 00:04
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 14:37

Client Sample ID: BS25-45 0'
Date Collected: 08/25/25 11:35
Date Received: 08/28/25 07:50

Lab Sample ID: 885-32050-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 02:45
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 02:45
Total/NA	Prep	SHAKE			33882	DR	EET ALB	09/04/25 13:01
Total/NA	Analysis	8015M/D		10	33853	EM	EET ALB	09/05/25 00:16

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-45 0'

Lab Sample ID: 885-32050-29

Date Collected: 08/25/25 11:35

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 14:47

Client Sample ID: BS25-46 0'

Lab Sample ID: 885-32050-30

Date Collected: 08/25/25 11:30

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 03:32
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 03:32
Total/NA	Prep	SHAKE			33882	DR	EET ALB	09/04/25 13:01
Total/NA	Analysis	8015M/D		1	33853	EM	EET ALB	09/05/25 00:29
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 14:58

Client Sample ID: BS25-47 0'

Lab Sample ID: 885-32050-31

Date Collected: 08/25/25 11:27

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 03:56
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 03:56
Total/NA	Prep	SHAKE			33882	DR	EET ALB	09/04/25 13:01
Total/NA	Analysis	8015M/D		1	33853	EM	EET ALB	09/05/25 00:41
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 15:09

Client Sample ID: BS25-48 0'

Lab Sample ID: 885-32050-32

Date Collected: 08/25/25 11:25

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 04:20
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 04:20
Total/NA	Prep	SHAKE			33882	DR	EET ALB	09/04/25 13:01
Total/NA	Analysis	8015M/D		1	33954	BZR	EET ALB	09/05/25 13:16
Total/NA	Prep	300_Prep			33536	RC	EET ALB	08/29/25 07:48
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 15:20

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-49 0'

Lab Sample ID: 885-32050-33

Date Collected: 08/25/25 11:17

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 04:43
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 04:43
Total/NA	Prep	SHAKE			33882	DR	EET ALB	09/04/25 13:01
Total/NA	Analysis	8015M/D		1	33853	EM	EET ALB	09/05/25 01:06
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 15:31

Client Sample ID: BS25-50 0'

Lab Sample ID: 885-32050-34

Date Collected: 08/25/25 11:18

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 05:07
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 05:07
Total/NA	Prep	SHAKE			33882	DR	EET ALB	09/04/25 13:01
Total/NA	Analysis	8015M/D		10	33853	EM	EET ALB	09/05/25 01:18
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 15:42

Client Sample ID: BS25-51 0'

Lab Sample ID: 885-32050-35

Date Collected: 08/25/25 11:15

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 05:31
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 05:31
Total/NA	Prep	SHAKE			33882	DR	EET ALB	09/04/25 13:01
Total/NA	Analysis	8015M/D		10	33853	EM	EET ALB	09/05/25 01:31
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 16:57

Client Sample ID: BS25-52 0'

Lab Sample ID: 885-32050-36

Date Collected: 08/25/25 11:13

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 05:55

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-52 0'

Lab Sample ID: 885-32050-36

Date Collected: 08/25/25 11:13

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 05:55
Total/NA	Prep	SHAKE			33882	DR	EET ALB	09/04/25 13:01
Total/NA	Analysis	8015M/D		1	33853	EM	EET ALB	09/05/25 01:56
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 17:08

Client Sample ID: BS25-53 0'

Lab Sample ID: 885-32050-37

Date Collected: 08/25/25 11:12

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 06:19
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 06:19
Total/NA	Prep	SHAKE			33882	DR	EET ALB	09/04/25 13:01
Total/NA	Analysis	8015M/D		1	33853	EM	EET ALB	09/05/25 02:08
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 17:19

Client Sample ID: BS25-54 0'

Lab Sample ID: 885-32050-38

Date Collected: 08/25/25 11:10

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 06:42
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 06:42
Total/NA	Prep	SHAKE			33882	DR	EET ALB	09/04/25 13:01
Total/NA	Analysis	8015M/D		1	33853	EM	EET ALB	09/05/25 02:20
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 17:30

Client Sample ID: BS25-55 0'

Lab Sample ID: 885-32050-39

Date Collected: 08/25/25 11:05

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8015M/D		1	33652	JP	EET ALB	08/30/25 07:06
Total/NA	Prep	5030C			33486	AT	EET ALB	08/28/25 14:17
Total/NA	Analysis	8021B		1	33651	JP	EET ALB	08/30/25 07:06

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Client Sample ID: BS25-55 0'
Date Collected: 08/25/25 11:05
Date Received: 08/28/25 07:50

Lab Sample ID: 885-32050-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			33882	DR	EET ALB	09/04/25 13:01
Total/NA	Analysis	8015M/D		1	33853	EM	EET ALB	09/05/25 02:33
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 17:41

Client Sample ID: BS25-56 0'
Date Collected: 08/25/25 11:03
Date Received: 08/28/25 07:50

Lab Sample ID: 885-32050-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8015M/D		1	33665	JP	EET ALB	08/30/25 20:15
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8021B		1	33666	JP	EET ALB	08/30/25 20:15
Total/NA	Prep	SHAKE			33949	EM	EET ALB	09/05/25 09:18
Total/NA	Analysis	8015M/D		1	33954	BZR	EET ALB	09/05/25 12:28
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 17:52

Client Sample ID: BS25-57 0'
Date Collected: 08/25/25 11:00
Date Received: 08/28/25 07:50

Lab Sample ID: 885-32050-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8015M/D		1	33665	JP	EET ALB	08/30/25 21:27
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8021B		1	33666	JP	EET ALB	08/30/25 21:27
Total/NA	Prep	SHAKE			33949	EM	EET ALB	09/05/25 09:18
Total/NA	Analysis	8015M/D		1	33954	BZR	EET ALB	09/05/25 12:40
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 18:24

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32050-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Chain-of-Custody Record

Client: **Vertex**

(direct bill to Devon, work order 1094064801)

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

Project Name:

SDE 31 Federal CTB

Project #:

24E-01499

Project Manager:

Kent Stallings, Sally Carttar

kstallings@vertex.ca

Samplers: S. Minnix, L. Pullman

On Ice: ☒ Yes ☐ No# of Coolers: 1 *46 by*Cooler Temp (Including CF): 2.3-0.2-21Container
Type and #Preservative
Type

HEAL No.

Date Time Matrix Sample Name

08/25/25 10:48 Soil BS25-17 0'

1, 4oz jar

08/25/25 10:50 Soil BS25-18 0'

1, 4oz jar

08/25/25 10:52 Soil BS25-19 0'

1, 4oz jar

08/25/25 10:56 Soil BS25-20 0'

1, 4oz jar

08/25/25 11:00 Soil BS25-21 0'

1, 4oz jar

08/25/25 11:12 Soil BS25-22 0'

1, 4oz jar

08/25/25 11:18 Soil BS25-23 0'

1, 4oz jar

08/25/25 11:23 Soil BS25-24 0'

1, 4oz jar

08/25/25 11:27 Soil BS25-25 0'

1, 4oz jar

08/25/25 11:39 Soil BS25-26 0'

1, 4oz jar

08/25/25 11:43 Soil BS25-27 0'

1, 4oz jar

08/25/25 11:46 Soil BS25-28 0'

1, 4oz jar

Date: Time: Relinquished by:

8-27-25 0700 *Sally Carttar*

Received by: Via: Date Time

Commissioner 8/27/25 700

Date: Time: Relinquished by:

8/27/25 1900 *Commissioner*

Received by: Via: Date Time

Commissioner 8/27/25 700**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87108 885-32050 COC

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: ATTN Jim Raley

Direct bill to Devon work order 1094064801 Jim Raley

cc. permian@vertexresource.com, SCarttar@vertexresource.com,

kstallings@vertexresource.com, SMcCarty@vertexresource.com,

and LPullman@vertexresource.com 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 noted on the analytical report

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-32050-1

Login Number: 32050

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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



Environment Testing

- 1
- 2
- 3
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- 8
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- 10
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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kent Stallings
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 9/6/2025 10:37:52 AM

JOB DESCRIPTION

SDE 31 Federal CTB

JOB NUMBER

885-32065-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Generated
9/6/2025 10:37:52 AM

Client: Vertex
Project/Site: SDE 31 Federal CTB

Laboratory Job ID: 885-32065-1

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Definitions/Glossary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: SDE 31 Federal CTB

Job ID: 885-32065-1

Job ID: 885-32065-1

Eurofins Albuquerque

Job Narrative 885-32065-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/28/2025 7:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-33949 and analytical batch 885-33950 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015D_DRO: The following samples required a dilution due to the nature of the sample matrix: BS25-61 0' (885-32065-4) and BS25-62 0' (885-32065-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-33949 and analytical batch 885-33950 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-58 0'

Lab Sample ID: 885-32065-1

Date Collected: 08/26/25 10:30

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 16:08	08/30/25 22:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			08/28/25 16:08	08/30/25 22:38	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 16:08	08/30/25 22:38	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 16:08	08/30/25 22:38	1
Toluene	ND		0.049	mg/Kg		08/28/25 16:08	08/30/25 22:38	1
Xylenes, Total	ND		0.098	mg/Kg		08/28/25 16:08	08/30/25 22:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		15 - 150			08/28/25 16:08	08/30/25 22:38	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	18		9.2	mg/Kg		09/05/25 09:18	09/05/25 12:52	1
Motor Oil Range Organics [C28-C40]	65		46	mg/Kg		09/05/25 09:18	09/05/25 12:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			09/05/25 09:18	09/05/25 12:52	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		50	mg/Kg		08/29/25 08:18	08/29/25 18:35	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-59 0'

Lab Sample ID: 885-32065-2

Date Collected: 08/26/25 10:35

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		08/28/25 16:08	08/30/25 23:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			08/28/25 16:08	08/30/25 23:02	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/28/25 16:08	08/30/25 23:02	1
Ethylbenzene	ND		0.047	mg/Kg		08/28/25 16:08	08/30/25 23:02	1
Toluene	ND		0.047	mg/Kg		08/28/25 16:08	08/30/25 23:02	1
Xylenes, Total	ND		0.094	mg/Kg		08/28/25 16:08	08/30/25 23:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		15 - 150			08/28/25 16:08	08/30/25 23:02	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	35		10	mg/Kg		09/05/25 09:18	09/05/25 13:04	1
Motor Oil Range Organics [C28-C40]	190		50	mg/Kg		09/05/25 09:18	09/05/25 13:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			09/05/25 09:18	09/05/25 13:04	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4200		51	mg/Kg		08/29/25 08:18	08/29/25 18:46	10

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Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-60 0'

Lab Sample ID: 885-32065-3

Date Collected: 08/26/25 10:40

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		08/28/25 16:08	08/30/25 23:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			08/28/25 16:08	08/30/25 23:25	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 16:08	08/30/25 23:25	1
Ethylbenzene	ND		0.048	mg/Kg		08/28/25 16:08	08/30/25 23:25	1
Toluene	ND		0.048	mg/Kg		08/28/25 16:08	08/30/25 23:25	1
Xylenes, Total	ND		0.097	mg/Kg		08/28/25 16:08	08/30/25 23:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		15 - 150			08/28/25 16:08	08/30/25 23:25	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	98		9.7	mg/Kg		09/05/25 09:18	09/05/25 11:13	1
Motor Oil Range Organics [C28-C40]	270		49	mg/Kg		09/05/25 09:18	09/05/25 11:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			09/05/25 09:18	09/05/25 11:13	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		50	mg/Kg		08/29/25 08:18	08/29/25 18:57	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-61 0'

Lab Sample ID: 885-32065-4

Date Collected: 08/26/25 10:45

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/28/25 16:08	08/30/25 23:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			08/28/25 16:08	08/30/25 23:49	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 16:08	08/30/25 23:49	1
Ethylbenzene	ND		0.050	mg/Kg		08/28/25 16:08	08/30/25 23:49	1
Toluene	ND		0.050	mg/Kg		08/28/25 16:08	08/30/25 23:49	1
Xylenes, Total	ND		0.10	mg/Kg		08/28/25 16:08	08/30/25 23:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		15 - 150			08/28/25 16:08	08/30/25 23:49	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	300		92	mg/Kg		09/05/25 09:18	09/05/25 17:08	10
Motor Oil Range Organics [C28-C40]	1400		460	mg/Kg		09/05/25 09:18	09/05/25 17:08	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			09/05/25 09:18	09/05/25 17:08	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4100		50	mg/Kg		08/29/25 08:18	08/29/25 19:08	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-62 0'

Lab Sample ID: 885-32065-5

Date Collected: 08/26/25 10:50

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 16:08	08/31/25 00:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			08/28/25 16:08	08/31/25 00:13	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 16:08	08/31/25 00:13	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 16:08	08/31/25 00:13	1
Toluene	ND		0.049	mg/Kg		08/28/25 16:08	08/31/25 00:13	1
Xylenes, Total	ND		0.097	mg/Kg		08/28/25 16:08	08/31/25 00:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		15 - 150			08/28/25 16:08	08/31/25 00:13	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	150		93	mg/Kg		09/05/25 09:18	09/05/25 17:42	10
Motor Oil Range Organics [C28-C40]	1300		460	mg/Kg		09/05/25 09:18	09/05/25 17:42	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			09/05/25 09:18	09/05/25 17:42	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3900		51	mg/Kg		08/29/25 08:18	08/29/25 19:18	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-63 0'

Lab Sample ID: 885-32065-6

Date Collected: 08/26/25 10:55

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6	mg/Kg		08/28/25 16:08	08/31/25 00:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			08/28/25 16:08	08/31/25 00:36	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/28/25 16:08	08/31/25 00:36	1
Ethylbenzene	ND		0.046	mg/Kg		08/28/25 16:08	08/31/25 00:36	1
Toluene	ND		0.046	mg/Kg		08/28/25 16:08	08/31/25 00:36	1
Xylenes, Total	ND		0.092	mg/Kg		08/28/25 16:08	08/31/25 00:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		15 - 150			08/28/25 16:08	08/31/25 00:36	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		09/05/25 09:18	09/05/25 15:59	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/05/25 09:18	09/05/25 15:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			09/05/25 09:18	09/05/25 15:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		50	mg/Kg		08/29/25 08:18	08/29/25 19:29	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-64 0'

Lab Sample ID: 885-32065-7

Date Collected: 08/26/25 11:00

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 16:09	08/31/25 01:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			08/28/25 16:09	08/31/25 01:00	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 16:09	08/31/25 01:00	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 16:09	08/31/25 01:00	1
Toluene	ND		0.049	mg/Kg		08/28/25 16:09	08/31/25 01:00	1
Xylenes, Total	ND		0.097	mg/Kg		08/28/25 16:09	08/31/25 01:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		15 - 150			08/28/25 16:09	08/31/25 01:00	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	15		9.3	mg/Kg		09/05/25 09:18	09/05/25 16:22	1
Motor Oil Range Organics [C28-C40]	50		47	mg/Kg		09/05/25 09:18	09/05/25 16:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			09/05/25 09:18	09/05/25 16:22	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		50	mg/Kg		08/29/25 08:18	08/29/25 19:40	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-65 0'

Lab Sample ID: 885-32065-8

Date Collected: 08/26/25 11:05

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6	mg/Kg		08/28/25 16:09	08/31/25 01:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			08/28/25 16:09	08/31/25 01:24	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/28/25 16:09	08/31/25 01:24	1
Ethylbenzene	ND		0.046	mg/Kg		08/28/25 16:09	08/31/25 01:24	1
Toluene	ND		0.046	mg/Kg		08/28/25 16:09	08/31/25 01:24	1
Xylenes, Total	ND		0.093	mg/Kg		08/28/25 16:09	08/31/25 01:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		15 - 150			08/28/25 16:09	08/31/25 01:24	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		09/05/25 09:18	09/05/25 16:45	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/05/25 09:18	09/05/25 16:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			09/05/25 09:18	09/05/25 16:45	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80		50	mg/Kg		08/29/25 08:18	08/29/25 19:51	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-66 0'

Lab Sample ID: 885-32065-9

Date Collected: 08/26/25 11:10

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		08/28/25 16:09	08/31/25 02:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			08/28/25 16:09	08/31/25 02:12	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 16:09	08/31/25 02:12	1
Ethylbenzene	ND		0.047	mg/Kg		08/28/25 16:09	08/31/25 02:12	1
Toluene	ND		0.047	mg/Kg		08/28/25 16:09	08/31/25 02:12	1
Xylenes, Total	ND		0.095	mg/Kg		08/28/25 16:09	08/31/25 02:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		15 - 150			08/28/25 16:09	08/31/25 02:12	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12		9.3	mg/Kg		09/05/25 09:18	09/05/25 11:17	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/05/25 09:18	09/05/25 11:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			09/05/25 09:18	09/05/25 11:17	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	790		50	mg/Kg		08/29/25 08:18	08/29/25 20:02	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-67 0'

Lab Sample ID: 885-32065-10

Date Collected: 08/26/25 11:15

Matrix: Solid

Date Received: 08/28/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		08/28/25 16:09	08/31/25 02:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			08/28/25 16:09	08/31/25 02:36	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/28/25 16:09	08/31/25 02:36	1
Ethylbenzene	ND		0.049	mg/Kg		08/28/25 16:09	08/31/25 02:36	1
Toluene	ND		0.049	mg/Kg		08/28/25 16:09	08/31/25 02:36	1
Xylenes, Total	ND		0.097	mg/Kg		08/28/25 16:09	08/31/25 02:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		15 - 150			08/28/25 16:09	08/31/25 02:36	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14	F2	9.2	mg/Kg		09/05/25 09:18	09/05/25 11:41	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/05/25 09:18	09/05/25 11:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134			09/05/25 09:18	09/05/25 11:41	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		08/29/25 08:18	08/29/25 20:34	10

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-33512/1-A

Matrix: Solid

Analysis Batch: 33665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33512

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/28/25 16:08	08/30/25 19:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			08/28/25 16:08	08/30/25 19:51	1

Lab Sample ID: LCS 885-33512/2-A

Matrix: Solid

Analysis Batch: 33665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	23.9		mg/Kg		96	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	202		15 - 150				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-33512/1-A

Matrix: Solid

Analysis Batch: 33666

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33512

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/28/25 16:08	08/30/25 19:51	1
Ethylbenzene	ND		0.050	mg/Kg		08/28/25 16:08	08/30/25 19:51	1
Toluene	ND		0.050	mg/Kg		08/28/25 16:08	08/30/25 19:51	1
Xylenes, Total	ND		0.10	mg/Kg		08/28/25 16:08	08/30/25 19:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/28/25 16:08	08/30/25 19:51	1

Lab Sample ID: LCS 885-33512/3-A

Matrix: Solid

Analysis Batch: 33666

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.873		mg/Kg		87	70 - 130
Ethylbenzene	1.00	0.841		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	2.00	1.78		mg/Kg		89	70 - 130
o-Xylene	1.00	0.836		mg/Kg		84	70 - 130
Toluene	1.00	0.865		mg/Kg		87	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	80		15 - 150				

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-33949/1-A

Matrix: Solid

Analysis Batch: 33954

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33949

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/05/25 09:18	09/05/25 12:04	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/05/25 09:18	09/05/25 12:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			09/05/25 09:18	09/05/25 12:04	1

Lab Sample ID: LCS 885-33949/2-A

Matrix: Solid

Analysis Batch: 33954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	57.2		mg/Kg		114	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	99		62 - 134				

Lab Sample ID: 885-32065-10 MS

Matrix: Solid

Analysis Batch: 33950

Client Sample ID: BS25-67 0'

Prep Type: Total/NA

Prep Batch: 33949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	14	F2	49.3	50.4		mg/Kg		74	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	96		62 - 134						

Lab Sample ID: 885-32065-10 MSD

Matrix: Solid

Analysis Batch: 33950

Client Sample ID: BS25-67 0'

Prep Type: Total/NA

Prep Batch: 33949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	14	F2	46.9	77.8	F2	mg/Kg		136	44 - 136	43	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	98		62 - 134								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-33538/1-A

Matrix: Solid

Analysis Batch: 33546

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33538

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg		08/29/25 08:18	08/29/25 09:58	1

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-33538/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 33546				Prep Batch: 33538			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.2	49.5		mg/Kg		99	90 - 110

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

GC VOA

Prep Batch: 33512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32065-1	BS25-58 0'	Total/NA	Solid	5030C	
885-32065-2	BS25-59 0'	Total/NA	Solid	5030C	
885-32065-3	BS25-60 0'	Total/NA	Solid	5030C	
885-32065-4	BS25-61 0'	Total/NA	Solid	5030C	
885-32065-5	BS25-62 0'	Total/NA	Solid	5030C	
885-32065-6	BS25-63 0'	Total/NA	Solid	5030C	
885-32065-7	BS25-64 0'	Total/NA	Solid	5030C	
885-32065-8	BS25-65 0'	Total/NA	Solid	5030C	
885-32065-9	BS25-66 0'	Total/NA	Solid	5030C	
885-32065-10	BS25-67 0'	Total/NA	Solid	5030C	
MB 885-33512/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-33512/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-33512/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 33665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32065-1	BS25-58 0'	Total/NA	Solid	8015M/D	33512
885-32065-2	BS25-59 0'	Total/NA	Solid	8015M/D	33512
885-32065-3	BS25-60 0'	Total/NA	Solid	8015M/D	33512
885-32065-4	BS25-61 0'	Total/NA	Solid	8015M/D	33512
885-32065-5	BS25-62 0'	Total/NA	Solid	8015M/D	33512
885-32065-6	BS25-63 0'	Total/NA	Solid	8015M/D	33512
885-32065-7	BS25-64 0'	Total/NA	Solid	8015M/D	33512
885-32065-8	BS25-65 0'	Total/NA	Solid	8015M/D	33512
885-32065-9	BS25-66 0'	Total/NA	Solid	8015M/D	33512
885-32065-10	BS25-67 0'	Total/NA	Solid	8015M/D	33512
MB 885-33512/1-A	Method Blank	Total/NA	Solid	8015M/D	33512
LCS 885-33512/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33512

Analysis Batch: 33666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32065-1	BS25-58 0'	Total/NA	Solid	8021B	33512
885-32065-2	BS25-59 0'	Total/NA	Solid	8021B	33512
885-32065-3	BS25-60 0'	Total/NA	Solid	8021B	33512
885-32065-4	BS25-61 0'	Total/NA	Solid	8021B	33512
885-32065-5	BS25-62 0'	Total/NA	Solid	8021B	33512
885-32065-6	BS25-63 0'	Total/NA	Solid	8021B	33512
885-32065-7	BS25-64 0'	Total/NA	Solid	8021B	33512
885-32065-8	BS25-65 0'	Total/NA	Solid	8021B	33512
885-32065-9	BS25-66 0'	Total/NA	Solid	8021B	33512
885-32065-10	BS25-67 0'	Total/NA	Solid	8021B	33512
MB 885-33512/1-A	Method Blank	Total/NA	Solid	8021B	33512
LCS 885-33512/3-A	Lab Control Sample	Total/NA	Solid	8021B	33512

GC Semi VOA

Prep Batch: 33949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32065-1	BS25-58 0'	Total/NA	Solid	SHAKE	
885-32065-2	BS25-59 0'	Total/NA	Solid	SHAKE	
885-32065-3	BS25-60 0'	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

GC Semi VOA (Continued)

Prep Batch: 33949 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32065-4	BS25-61 0'	Total/NA	Solid	SHAKE	
885-32065-5	BS25-62 0'	Total/NA	Solid	SHAKE	
885-32065-6	BS25-63 0'	Total/NA	Solid	SHAKE	
885-32065-7	BS25-64 0'	Total/NA	Solid	SHAKE	
885-32065-8	BS25-65 0'	Total/NA	Solid	SHAKE	
885-32065-9	BS25-66 0'	Total/NA	Solid	SHAKE	
885-32065-10	BS25-67 0'	Total/NA	Solid	SHAKE	
MB 885-33949/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-33949/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-32065-10 MS	BS25-67 0'	Total/NA	Solid	SHAKE	
885-32065-10 MSD	BS25-67 0'	Total/NA	Solid	SHAKE	

Analysis Batch: 33950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32065-9	BS25-66 0'	Total/NA	Solid	8015M/D	33949
885-32065-10	BS25-67 0'	Total/NA	Solid	8015M/D	33949
885-32065-10 MS	BS25-67 0'	Total/NA	Solid	8015M/D	33949
885-32065-10 MSD	BS25-67 0'	Total/NA	Solid	8015M/D	33949

Analysis Batch: 33954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32065-1	BS25-58 0'	Total/NA	Solid	8015M/D	33949
885-32065-2	BS25-59 0'	Total/NA	Solid	8015M/D	33949
MB 885-33949/1-A	Method Blank	Total/NA	Solid	8015M/D	33949
LCS 885-33949/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33949

Analysis Batch: 33955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32065-3	BS25-60 0'	Total/NA	Solid	8015M/D	33949
885-32065-4	BS25-61 0'	Total/NA	Solid	8015M/D	33949
885-32065-5	BS25-62 0'	Total/NA	Solid	8015M/D	33949
885-32065-6	BS25-63 0'	Total/NA	Solid	8015M/D	33949
885-32065-7	BS25-64 0'	Total/NA	Solid	8015M/D	33949
885-32065-8	BS25-65 0'	Total/NA	Solid	8015M/D	33949

HPLC/IC

Prep Batch: 33538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32065-1	BS25-58 0'	Total/NA	Solid	300_Prep	
885-32065-2	BS25-59 0'	Total/NA	Solid	300_Prep	
885-32065-3	BS25-60 0'	Total/NA	Solid	300_Prep	
885-32065-4	BS25-61 0'	Total/NA	Solid	300_Prep	
885-32065-5	BS25-62 0'	Total/NA	Solid	300_Prep	
885-32065-6	BS25-63 0'	Total/NA	Solid	300_Prep	
885-32065-7	BS25-64 0'	Total/NA	Solid	300_Prep	
885-32065-8	BS25-65 0'	Total/NA	Solid	300_Prep	
885-32065-9	BS25-66 0'	Total/NA	Solid	300_Prep	
885-32065-10	BS25-67 0'	Total/NA	Solid	300_Prep	
MB 885-33538/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-33538/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

HPLC/IC

Analysis Batch: 33546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32065-1	BS25-58 0'	Total/NA	Solid	300.0	33538
885-32065-2	BS25-59 0'	Total/NA	Solid	300.0	33538
885-32065-3	BS25-60 0'	Total/NA	Solid	300.0	33538
885-32065-4	BS25-61 0'	Total/NA	Solid	300.0	33538
885-32065-5	BS25-62 0'	Total/NA	Solid	300.0	33538
885-32065-6	BS25-63 0'	Total/NA	Solid	300.0	33538
885-32065-7	BS25-64 0'	Total/NA	Solid	300.0	33538
885-32065-8	BS25-65 0'	Total/NA	Solid	300.0	33538
885-32065-9	BS25-66 0'	Total/NA	Solid	300.0	33538
885-32065-10	BS25-67 0'	Total/NA	Solid	300.0	33538
MB 885-33538/1-A	Method Blank	Total/NA	Solid	300.0	33538
LCS 885-33538/2-A	Lab Control Sample	Total/NA	Solid	300.0	33538

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-58 0'

Lab Sample ID: 885-32065-1

Date Collected: 08/26/25 10:30

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8015M/D		1	33665	JP	EET ALB	08/30/25 22:38
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8021B		1	33666	JP	EET ALB	08/30/25 22:38
Total/NA	Prep	SHAKE			33949	EM	EET ALB	09/05/25 09:18
Total/NA	Analysis	8015M/D		1	33954	BZR	EET ALB	09/05/25 12:52
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 18:35

Client Sample ID: BS25-59 0'

Lab Sample ID: 885-32065-2

Date Collected: 08/26/25 10:35

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8015M/D		1	33665	JP	EET ALB	08/30/25 23:02
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8021B		1	33666	JP	EET ALB	08/30/25 23:02
Total/NA	Prep	SHAKE			33949	EM	EET ALB	09/05/25 09:18
Total/NA	Analysis	8015M/D		1	33954	BZR	EET ALB	09/05/25 13:04
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 18:46

Client Sample ID: BS25-60 0'

Lab Sample ID: 885-32065-3

Date Collected: 08/26/25 10:40

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8015M/D		1	33665	JP	EET ALB	08/30/25 23:25
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8021B		1	33666	JP	EET ALB	08/30/25 23:25
Total/NA	Prep	SHAKE			33949	EM	EET ALB	09/05/25 09:18
Total/NA	Analysis	8015M/D		1	33955	BZR	EET ALB	09/05/25 11:13
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 18:57

Client Sample ID: BS25-61 0'

Lab Sample ID: 885-32065-4

Date Collected: 08/26/25 10:45

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8015M/D		1	33665	JP	EET ALB	08/30/25 23:49

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-61 0'

Lab Sample ID: 885-32065-4

Date Collected: 08/26/25 10:45

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8021B		1	33666	JP	EET ALB	08/30/25 23:49
Total/NA	Prep	SHAKE			33949	EM	EET ALB	09/05/25 09:18
Total/NA	Analysis	8015M/D		10	33955	BZR	EET ALB	09/05/25 17:08
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 19:08

Client Sample ID: BS25-62 0'

Lab Sample ID: 885-32065-5

Date Collected: 08/26/25 10:50

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8015M/D		1	33665	JP	EET ALB	08/31/25 00:13
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8021B		1	33666	JP	EET ALB	08/31/25 00:13
Total/NA	Prep	SHAKE			33949	EM	EET ALB	09/05/25 09:18
Total/NA	Analysis	8015M/D		10	33955	BZR	EET ALB	09/05/25 17:42
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 19:18

Client Sample ID: BS25-63 0'

Lab Sample ID: 885-32065-6

Date Collected: 08/26/25 10:55

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8015M/D		1	33665	JP	EET ALB	08/31/25 00:36
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:08
Total/NA	Analysis	8021B		1	33666	JP	EET ALB	08/31/25 00:36
Total/NA	Prep	SHAKE			33949	EM	EET ALB	09/05/25 09:18
Total/NA	Analysis	8015M/D		1	33955	BZR	EET ALB	09/05/25 15:59
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 19:29

Client Sample ID: BS25-64 0'

Lab Sample ID: 885-32065-7

Date Collected: 08/26/25 11:00

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:09
Total/NA	Analysis	8015M/D		1	33665	JP	EET ALB	08/31/25 01:00
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:09
Total/NA	Analysis	8021B		1	33666	JP	EET ALB	08/31/25 01:00

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-64 0'

Lab Sample ID: 885-32065-7

Date Collected: 08/26/25 11:00

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			33949	EM	EET ALB	09/05/25 09:18
Total/NA	Analysis	8015M/D		1	33955	BZR	EET ALB	09/05/25 16:22
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 19:40

Client Sample ID: BS25-65 0'

Lab Sample ID: 885-32065-8

Date Collected: 08/26/25 11:05

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:09
Total/NA	Analysis	8015M/D		1	33665	JP	EET ALB	08/31/25 01:24
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:09
Total/NA	Analysis	8021B		1	33666	JP	EET ALB	08/31/25 01:24
Total/NA	Prep	SHAKE			33949	EM	EET ALB	09/05/25 09:18
Total/NA	Analysis	8015M/D		1	33955	BZR	EET ALB	09/05/25 16:45
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 19:51

Client Sample ID: BS25-66 0'

Lab Sample ID: 885-32065-9

Date Collected: 08/26/25 11:10

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:09
Total/NA	Analysis	8015M/D		1	33665	JP	EET ALB	08/31/25 02:12
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:09
Total/NA	Analysis	8021B		1	33666	JP	EET ALB	08/31/25 02:12
Total/NA	Prep	SHAKE			33949	EM	EET ALB	09/05/25 09:18
Total/NA	Analysis	8015M/D		1	33950	BZR	EET ALB	09/05/25 11:17
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 20:02

Client Sample ID: BS25-67 0'

Lab Sample ID: 885-32065-10

Date Collected: 08/26/25 11:15

Matrix: Solid

Date Received: 08/28/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:09
Total/NA	Analysis	8015M/D		1	33665	JP	EET ALB	08/31/25 02:36
Total/NA	Prep	5030C			33512	JP	EET ALB	08/28/25 16:09
Total/NA	Analysis	8021B		1	33666	JP	EET ALB	08/31/25 02:36
Total/NA	Prep	SHAKE			33949	EM	EET ALB	09/05/25 09:18
Total/NA	Analysis	8015M/D		1	33950	BZR	EET ALB	09/05/25 11:41

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Client Sample ID: BS25-67 0'
Date Collected: 08/26/25 11:15
Date Received: 08/28/25 07:50

Lab Sample ID: 885-32065-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			33538	RC	EET ALB	08/29/25 08:18
Total/NA	Analysis	300.0		10	33546	RC	EET ALB	08/29/25 20:34

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Accreditation/Certification Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32065-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26



885-32065 COC

Analysis Request

9/6/2025

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-32065-1

Login Number: 32065

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kent Stallings
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 9/8/2025 2:57:06 PM

JOB DESCRIPTION

SDE 31 Federal CTB

JOB NUMBER

885-32166-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Client: Vertex
Project/Site: SDE 31 Federal CTB

Laboratory Job ID: 885-32166-1

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Definitions/Glossary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: SDE 31 Federal CTB

Job ID: 885-32166-1

Job ID: 885-32166-1

Eurofins Albuquerque

Job Narrative 885-32166-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/29/2025 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: Surrogate recovery for the following sample was outside control limits: BS25-79 0' (885-32166-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D_DRO: The following sample(s) was diluted due to abundance of target. BS25-73 0' (885-32166-6). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-68 0'

Lab Sample ID: 885-32166-1

Date Collected: 08/27/25 08:10

Matrix: Solid

Date Received: 08/29/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		09/02/25 10:43	09/03/25 16:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			09/02/25 10:43	09/03/25 16:31	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/02/25 10:43	09/03/25 16:31	1
Ethylbenzene	ND		0.050	mg/Kg		09/02/25 10:43	09/03/25 16:31	1
Toluene	ND		0.050	mg/Kg		09/02/25 10:43	09/03/25 16:31	1
Xylenes, Total	ND		0.10	mg/Kg		09/02/25 10:43	09/03/25 16:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			09/02/25 10:43	09/03/25 16:31	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	73		9.7	mg/Kg		09/02/25 14:56	09/04/25 05:02	1
Motor Oil Range Organics [C28-C40]	180		49	mg/Kg		09/02/25 14:56	09/04/25 05:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			09/02/25 14:56	09/04/25 05:02	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		09/02/25 11:59	09/02/25 16:40	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-69 0'

Lab Sample ID: 885-32166-2

Date Collected: 08/27/25 08:20

Matrix: Solid

Date Received: 08/29/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		09/02/25 10:43	09/03/25 17:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 150			09/02/25 10:43	09/03/25 17:36	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/02/25 10:43	09/03/25 17:36	1
Ethylbenzene	ND		0.050	mg/Kg		09/02/25 10:43	09/03/25 17:36	1
Toluene	ND		0.050	mg/Kg		09/02/25 10:43	09/03/25 17:36	1
Xylenes, Total	ND		0.099	mg/Kg		09/02/25 10:43	09/03/25 17:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			09/02/25 10:43	09/03/25 17:36	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	380		93	mg/Kg		09/02/25 14:56	09/02/25 18:04	10
Motor Oil Range Organics [C28-C40]	2000		460	mg/Kg		09/02/25 14:56	09/02/25 18:04	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1 - D	62 - 134			09/02/25 14:56	09/02/25 18:04	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		09/02/25 11:59	09/02/25 16:51	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-70 0'

Lab Sample ID: 885-32166-3

Date Collected: 08/27/25 08:30

Matrix: Solid

Date Received: 08/29/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		09/02/25 10:43	09/03/25 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			09/02/25 10:43	09/03/25 18:41	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/02/25 10:43	09/03/25 18:41	1
Ethylbenzene	ND		0.049	mg/Kg		09/02/25 10:43	09/03/25 18:41	1
Toluene	ND		0.049	mg/Kg		09/02/25 10:43	09/03/25 18:41	1
Xylenes, Total	ND		0.097	mg/Kg		09/02/25 10:43	09/03/25 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			09/02/25 10:43	09/03/25 18:41	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	550		9.8	mg/Kg		09/02/25 14:56	09/02/25 18:16	1
Motor Oil Range Organics [C28-C40]	590		49	mg/Kg		09/02/25 14:56	09/02/25 18:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			09/02/25 14:56	09/02/25 18:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		09/02/25 11:59	09/02/25 17:02	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-71 0'

Lab Sample ID: 885-32166-4

Date Collected: 08/27/25 08:40

Matrix: Solid

Date Received: 08/29/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		09/02/25 10:43	09/03/25 19:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 150			09/02/25 10:43	09/03/25 19:03	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/02/25 10:43	09/03/25 19:03	1
Ethylbenzene	ND		0.048	mg/Kg		09/02/25 10:43	09/03/25 19:03	1
Toluene	ND		0.048	mg/Kg		09/02/25 10:43	09/03/25 19:03	1
Xylenes, Total	ND		0.095	mg/Kg		09/02/25 10:43	09/03/25 19:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			09/02/25 10:43	09/03/25 19:03	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	140		9.4	mg/Kg		09/02/25 14:56	09/02/25 18:28	1
Motor Oil Range Organics [C28-C40]	230		47	mg/Kg		09/02/25 14:56	09/02/25 18:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			09/02/25 14:56	09/02/25 18:28	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		09/02/25 11:59	09/02/25 17:13	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-72 0'

Lab Sample ID: 885-32166-5

Date Collected: 08/27/25 08:50

Matrix: Solid

Date Received: 08/29/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		09/02/25 10:43	09/03/25 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		15 - 150			09/02/25 10:43	09/03/25 19:25	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/02/25 10:43	09/03/25 19:25	1
Ethylbenzene	ND		0.047	mg/Kg		09/02/25 10:43	09/03/25 19:25	1
Toluene	ND		0.047	mg/Kg		09/02/25 10:43	09/03/25 19:25	1
Xylenes, Total	ND		0.094	mg/Kg		09/02/25 10:43	09/03/25 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			09/02/25 10:43	09/03/25 19:25	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	560		96	mg/Kg		09/02/25 14:56	09/02/25 18:39	10
Motor Oil Range Organics [C28-C40]	1300		480	mg/Kg		09/02/25 14:56	09/02/25 18:39	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1 - D	62 - 134			09/02/25 14:56	09/02/25 18:39	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75		50	mg/Kg		09/02/25 11:59	09/02/25 17:24	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-73 0'

Lab Sample ID: 885-32166-6

Date Collected: 08/27/25 09:00

Matrix: Solid

Date Received: 08/29/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		09/02/25 10:43	09/03/25 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 150			09/02/25 10:43	09/03/25 19:46	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/02/25 10:43	09/03/25 19:46	1
Ethylbenzene	ND		0.047	mg/Kg		09/02/25 10:43	09/03/25 19:46	1
Toluene	ND		0.047	mg/Kg		09/02/25 10:43	09/03/25 19:46	1
Xylenes, Total	ND		0.093	mg/Kg		09/02/25 10:43	09/03/25 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			09/02/25 10:43	09/03/25 19:46	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1000		96	mg/Kg		09/02/25 14:56	09/04/25 15:42	10
Motor Oil Range Organics [C28-C40]	2200		480	mg/Kg		09/02/25 14:56	09/04/25 15:42	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1 - D	62 - 134			09/02/25 14:56	09/04/25 15:42	10
Di-n-octyl phthalate (Surr)	103		62 - 134			09/02/25 14:56	09/05/25 10:40	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79		50	mg/Kg		09/02/25 11:59	09/02/25 17:35	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-74 0'

Lab Sample ID: 885-32166-7

Date Collected: 08/27/25 09:10

Matrix: Solid

Date Received: 08/29/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		09/02/25 10:43	09/03/25 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			09/02/25 10:43	09/03/25 20:08	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/02/25 10:43	09/03/25 20:08	1
Ethylbenzene	ND		0.047	mg/Kg		09/02/25 10:43	09/03/25 20:08	1
Toluene	ND		0.047	mg/Kg		09/02/25 10:43	09/03/25 20:08	1
Xylenes, Total	ND		0.093	mg/Kg		09/02/25 10:43	09/03/25 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			09/02/25 10:43	09/03/25 20:08	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	150		9.1	mg/Kg		09/05/25 11:43	09/08/25 12:13	1
Motor Oil Range Organics [C28-C40]	320		46	mg/Kg		09/05/25 11:43	09/08/25 12:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			09/05/25 11:43	09/08/25 12:13	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88		50	mg/Kg		09/02/25 11:59	09/02/25 17:45	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-75 0'

Lab Sample ID: 885-32166-8

Date Collected: 08/27/25 09:20

Matrix: Solid

Date Received: 08/29/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		09/02/25 10:43	09/03/25 20:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			09/02/25 10:43	09/03/25 20:30	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/02/25 10:43	09/03/25 20:30	1
Ethylbenzene	ND		0.048	mg/Kg		09/02/25 10:43	09/03/25 20:30	1
Toluene	ND		0.048	mg/Kg		09/02/25 10:43	09/03/25 20:30	1
Xylenes, Total	ND		0.096	mg/Kg		09/02/25 10:43	09/03/25 20:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			09/02/25 10:43	09/03/25 20:30	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	70		9.3	mg/Kg		09/02/25 14:56	09/04/25 06:12	1
Motor Oil Range Organics [C28-C40]	230		46	mg/Kg		09/02/25 14:56	09/04/25 06:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			09/02/25 14:56	09/04/25 06:12	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		09/02/25 11:59	09/02/25 17:56	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-76 0'

Lab Sample ID: 885-32166-9

Date Collected: 08/27/25 09:30

Matrix: Solid

Date Received: 08/29/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		09/02/25 10:43	09/03/25 20:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		15 - 150			09/02/25 10:43	09/03/25 20:52	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/02/25 10:43	09/03/25 20:52	1
Ethylbenzene	ND		0.048	mg/Kg		09/02/25 10:43	09/03/25 20:52	1
Toluene	ND		0.048	mg/Kg		09/02/25 10:43	09/03/25 20:52	1
Xylenes, Total	ND		0.095	mg/Kg		09/02/25 10:43	09/03/25 20:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			09/02/25 10:43	09/03/25 20:52	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13		9.4	mg/Kg		09/02/25 14:56	09/02/25 19:37	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/02/25 14:56	09/02/25 19:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			09/02/25 14:56	09/02/25 19:37	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		50	mg/Kg		09/02/25 11:59	09/02/25 18:29	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-77 0'

Lab Sample ID: 885-32166-10

Date Collected: 08/27/25 09:40

Matrix: Solid

Date Received: 08/29/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		09/02/25 10:43	09/03/25 21:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 150			09/02/25 10:43	09/03/25 21:13	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/02/25 10:43	09/03/25 21:13	1
Ethylbenzene	ND		0.049	mg/Kg		09/02/25 10:43	09/03/25 21:13	1
Toluene	ND		0.049	mg/Kg		09/02/25 10:43	09/03/25 21:13	1
Xylenes, Total	ND		0.098	mg/Kg		09/02/25 10:43	09/03/25 21:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			09/02/25 10:43	09/03/25 21:13	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38		9.9	mg/Kg		09/02/25 14:56	09/02/25 20:12	1
Motor Oil Range Organics [C28-C40]	140		50	mg/Kg		09/02/25 14:56	09/02/25 20:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			09/02/25 14:56	09/02/25 20:12	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	780		50	mg/Kg		09/02/25 11:59	09/02/25 18:40	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-78 0'

Lab Sample ID: 885-32166-11

Date Collected: 08/27/25 09:50

Matrix: Solid

Date Received: 08/29/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		09/02/25 10:43	09/03/25 21:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 150			09/02/25 10:43	09/03/25 21:57	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/02/25 10:43	09/03/25 21:57	1
Ethylbenzene	ND		0.048	mg/Kg		09/02/25 10:43	09/03/25 21:57	1
Toluene	ND		0.048	mg/Kg		09/02/25 10:43	09/03/25 21:57	1
Xylenes, Total	ND		0.097	mg/Kg		09/02/25 10:43	09/03/25 21:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			09/02/25 10:43	09/03/25 21:57	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	56		9.6	mg/Kg		09/02/25 14:56	09/04/25 06:36	1
Motor Oil Range Organics [C28-C40]	160		48	mg/Kg		09/02/25 14:56	09/04/25 06:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			09/02/25 14:56	09/04/25 06:36	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		49	mg/Kg		09/02/25 11:59	09/02/25 18:50	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-79 0'

Lab Sample ID: 885-32166-12

Date Collected: 08/27/25 10:00

Matrix: Solid

Date Received: 08/29/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		09/02/25 10:43	09/03/25 22:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 150			09/02/25 10:43	09/03/25 22:18	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/02/25 10:43	09/03/25 22:18	1
Ethylbenzene	ND		0.047	mg/Kg		09/02/25 10:43	09/03/25 22:18	1
Toluene	ND		0.047	mg/Kg		09/02/25 10:43	09/03/25 22:18	1
Xylenes, Total	ND		0.094	mg/Kg		09/02/25 10:43	09/03/25 22:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			09/02/25 10:43	09/03/25 22:18	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	120		46	mg/Kg		09/02/25 14:56	09/02/25 20:35	5
Motor Oil Range Organics [C28-C40]	250		230	mg/Kg		09/02/25 14:56	09/02/25 20:35	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	138	S1+	62 - 134			09/02/25 14:56	09/02/25 20:35	5

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78		50	mg/Kg		09/02/25 11:59	09/02/25 19:01	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-80 0'

Lab Sample ID: 885-32166-13

Date Collected: 08/27/25 10:10

Matrix: Solid

Date Received: 08/29/25 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		09/02/25 10:43	09/03/25 22:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			09/02/25 10:43	09/03/25 22:40	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/02/25 10:43	09/03/25 22:40	1
Ethylbenzene	ND		0.047	mg/Kg		09/02/25 10:43	09/03/25 22:40	1
Toluene	ND		0.047	mg/Kg		09/02/25 10:43	09/03/25 22:40	1
Xylenes, Total	ND		0.094	mg/Kg		09/02/25 10:43	09/03/25 22:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			09/02/25 10:43	09/03/25 22:40	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	140		9.2	mg/Kg		09/02/25 14:56	09/04/25 06:59	1
Motor Oil Range Organics [C28-C40]	270		46	mg/Kg		09/02/25 14:56	09/04/25 06:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			09/02/25 14:56	09/04/25 06:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66		50	mg/Kg		09/02/25 11:59	09/02/25 19:12	10

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-33694/1-A

Matrix: Solid

Analysis Batch: 33859

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33694

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		09/02/25 10:43	09/03/25 16:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			09/02/25 10:43	09/03/25 16:09	1

Lab Sample ID: LCS 885-33694/2-A

Matrix: Solid

Analysis Batch: 33859

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	23.1		mg/Kg		93	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	232		15 - 150				

Lab Sample ID: 885-32166-1 MS

Matrix: Solid

Analysis Batch: 33859

Client Sample ID: BS25-68 0'

Prep Type: Total/NA

Prep Batch: 33694

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	22.3		mg/Kg		89	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	228		15 - 150						

Lab Sample ID: 885-32166-1 MSD

Matrix: Solid

Analysis Batch: 33859

Client Sample ID: BS25-68 0'

Prep Type: Total/NA

Prep Batch: 33694

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	22.1		mg/Kg		89	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	227		15 - 150								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-33694/1-A

Matrix: Solid

Analysis Batch: 33860

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33694

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/02/25 10:43	09/03/25 16:09	1
Ethylbenzene	ND		0.050	mg/Kg		09/02/25 10:43	09/03/25 16:09	1
Toluene	ND		0.050	mg/Kg		09/02/25 10:43	09/03/25 16:09	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-33694/1-A

Matrix: Solid

Analysis Batch: 33860

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33694

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		09/02/25 10:43	09/03/25 16:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			09/02/25 10:43	09/03/25 16:09	1

Lab Sample ID: LCS 885-33694/3-A

Matrix: Solid

Analysis Batch: 33860

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.951		mg/Kg		95	70 - 130
Ethylbenzene	1.00	0.984		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	2.00	1.97		mg/Kg		99	70 - 130
o-Xylene	1.00	0.981		mg/Kg		98	70 - 130
Toluene	1.00	0.969		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	104		15 - 150				

Lab Sample ID: 885-32166-2 MS

Matrix: Solid

Analysis Batch: 33860

Client Sample ID: BS25-69 0'

Prep Type: Total/NA

Prep Batch: 33694

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.996	0.950		mg/Kg		95	70 - 130
Ethylbenzene	ND		0.996	1.02		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	ND		1.99	2.01		mg/Kg		101	70 - 130
o-Xylene	ND		0.996	1.01		mg/Kg		102	70 - 130
Toluene	ND		0.996	0.987		mg/Kg		99	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		15 - 150						

Lab Sample ID: 885-32166-2 MSD

Matrix: Solid

Analysis Batch: 33860

Client Sample ID: BS25-69 0'

Prep Type: Total/NA

Prep Batch: 33694

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.994	0.945		mg/Kg		95	70 - 130	1	20
Ethylbenzene	ND		0.994	0.993		mg/Kg		100	70 - 130	2	20
m-Xylene & p-Xylene	ND		1.99	1.98		mg/Kg		100	70 - 130	1	20
o-Xylene	ND		0.994	0.983		mg/Kg		99	70 - 130	3	20
Toluene	ND		0.994	0.976		mg/Kg		98	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		15 - 150								

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-33743/1-A

Matrix: Solid

Analysis Batch: 33689

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33743

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/02/25 14:56	09/02/25 17:29	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/02/25 14:56	09/02/25 17:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			09/02/25 14:56	09/02/25 17:29	1

Lab Sample ID: LCS 885-33743/2-A

Matrix: Solid

Analysis Batch: 33689

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33743

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	68.2		mg/Kg		136	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	114		62 - 134				

Lab Sample ID: 885-32166-9 MS

Matrix: Solid

Analysis Batch: 33689

Client Sample ID: BS25-76 0'

Prep Type: Total/NA

Prep Batch: 33743

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	13		48.7	52.3		mg/Kg		80	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	91		62 - 134						

Lab Sample ID: 885-32166-9 MSD

Matrix: Solid

Analysis Batch: 33689

Client Sample ID: BS25-76 0'

Prep Type: Total/NA

Prep Batch: 33743

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	13		46.0	44.3		mg/Kg		68	44 - 136	17	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	80		62 - 134								

Lab Sample ID: MB 885-33971/1-A

Matrix: Solid

Analysis Batch: 34125

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33971

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/05/25 11:42	09/08/25 11:16	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/05/25 11:42	09/08/25 11:16	1

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QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-33971/1-A
Matrix: Solid
Analysis Batch: 34125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33971

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134	09/05/25 11:42	09/08/25 11:16	1

Lab Sample ID: LCS 885-33971/2-A
Matrix: Solid
Analysis Batch: 34125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	64.0		mg/Kg		128	51 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	108		62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-33716/1-A
Matrix: Solid
Analysis Batch: 33730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33716

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg		09/02/25 11:59	09/02/25 13:54	1

Lab Sample ID: LCS 885-33716/2-A
Matrix: Solid
Analysis Batch: 33730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	49.8	49.2		mg/Kg		99	90 - 110

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QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

GC VOA

Prep Batch: 33694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-1	BS25-68 0'	Total/NA	Solid	5030C	
885-32166-2	BS25-69 0'	Total/NA	Solid	5030C	
885-32166-3	BS25-70 0'	Total/NA	Solid	5030C	
885-32166-4	BS25-71 0'	Total/NA	Solid	5030C	
885-32166-5	BS25-72 0'	Total/NA	Solid	5030C	
885-32166-6	BS25-73 0'	Total/NA	Solid	5030C	
885-32166-7	BS25-74 0'	Total/NA	Solid	5030C	
885-32166-8	BS25-75 0'	Total/NA	Solid	5030C	
885-32166-9	BS25-76 0'	Total/NA	Solid	5030C	
885-32166-10	BS25-77 0'	Total/NA	Solid	5030C	
885-32166-11	BS25-78 0'	Total/NA	Solid	5030C	
885-32166-12	BS25-79 0'	Total/NA	Solid	5030C	
885-32166-13	BS25-80 0'	Total/NA	Solid	5030C	
MB 885-33694/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-33694/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-33694/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-32166-1 MS	BS25-68 0'	Total/NA	Solid	5030C	
885-32166-1 MSD	BS25-68 0'	Total/NA	Solid	5030C	
885-32166-2 MS	BS25-69 0'	Total/NA	Solid	5030C	
885-32166-2 MSD	BS25-69 0'	Total/NA	Solid	5030C	

Analysis Batch: 33859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-1	BS25-68 0'	Total/NA	Solid	8015M/D	33694
885-32166-2	BS25-69 0'	Total/NA	Solid	8015M/D	33694
885-32166-3	BS25-70 0'	Total/NA	Solid	8015M/D	33694
885-32166-4	BS25-71 0'	Total/NA	Solid	8015M/D	33694
885-32166-5	BS25-72 0'	Total/NA	Solid	8015M/D	33694
885-32166-6	BS25-73 0'	Total/NA	Solid	8015M/D	33694
885-32166-7	BS25-74 0'	Total/NA	Solid	8015M/D	33694
885-32166-8	BS25-75 0'	Total/NA	Solid	8015M/D	33694
885-32166-9	BS25-76 0'	Total/NA	Solid	8015M/D	33694
885-32166-10	BS25-77 0'	Total/NA	Solid	8015M/D	33694
885-32166-11	BS25-78 0'	Total/NA	Solid	8015M/D	33694
885-32166-12	BS25-79 0'	Total/NA	Solid	8015M/D	33694
885-32166-13	BS25-80 0'	Total/NA	Solid	8015M/D	33694
MB 885-33694/1-A	Method Blank	Total/NA	Solid	8015M/D	33694
LCS 885-33694/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33694
885-32166-1 MS	BS25-68 0'	Total/NA	Solid	8015M/D	33694
885-32166-1 MSD	BS25-68 0'	Total/NA	Solid	8015M/D	33694

Analysis Batch: 33860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-1	BS25-68 0'	Total/NA	Solid	8021B	33694
885-32166-2	BS25-69 0'	Total/NA	Solid	8021B	33694
885-32166-3	BS25-70 0'	Total/NA	Solid	8021B	33694
885-32166-4	BS25-71 0'	Total/NA	Solid	8021B	33694
885-32166-5	BS25-72 0'	Total/NA	Solid	8021B	33694
885-32166-6	BS25-73 0'	Total/NA	Solid	8021B	33694
885-32166-7	BS25-74 0'	Total/NA	Solid	8021B	33694
885-32166-8	BS25-75 0'	Total/NA	Solid	8021B	33694

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

GC VOA (Continued)

Analysis Batch: 33860 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-9	BS25-76 0'	Total/NA	Solid	8021B	33694
885-32166-10	BS25-77 0'	Total/NA	Solid	8021B	33694
885-32166-11	BS25-78 0'	Total/NA	Solid	8021B	33694
885-32166-12	BS25-79 0'	Total/NA	Solid	8021B	33694
885-32166-13	BS25-80 0'	Total/NA	Solid	8021B	33694
MB 885-33694/1-A	Method Blank	Total/NA	Solid	8021B	33694
LCS 885-33694/3-A	Lab Control Sample	Total/NA	Solid	8021B	33694
885-32166-2 MS	BS25-69 0'	Total/NA	Solid	8021B	33694
885-32166-2 MSD	BS25-69 0'	Total/NA	Solid	8021B	33694

GC Semi VOA

Analysis Batch: 33689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-2	BS25-69 0'	Total/NA	Solid	8015M/D	33743
885-32166-3	BS25-70 0'	Total/NA	Solid	8015M/D	33743
885-32166-4	BS25-71 0'	Total/NA	Solid	8015M/D	33743
885-32166-5	BS25-72 0'	Total/NA	Solid	8015M/D	33743
885-32166-9	BS25-76 0'	Total/NA	Solid	8015M/D	33743
885-32166-10	BS25-77 0'	Total/NA	Solid	8015M/D	33743
885-32166-12	BS25-79 0'	Total/NA	Solid	8015M/D	33743
MB 885-33743/1-A	Method Blank	Total/NA	Solid	8015M/D	33743
LCS 885-33743/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33743
885-32166-9 MS	BS25-76 0'	Total/NA	Solid	8015M/D	33743
885-32166-9 MSD	BS25-76 0'	Total/NA	Solid	8015M/D	33743

Prep Batch: 33743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-1	BS25-68 0'	Total/NA	Solid	SHAKE	
885-32166-2	BS25-69 0'	Total/NA	Solid	SHAKE	
885-32166-3	BS25-70 0'	Total/NA	Solid	SHAKE	
885-32166-4	BS25-71 0'	Total/NA	Solid	SHAKE	
885-32166-5	BS25-72 0'	Total/NA	Solid	SHAKE	
885-32166-6	BS25-73 0'	Total/NA	Solid	SHAKE	
885-32166-8	BS25-75 0'	Total/NA	Solid	SHAKE	
885-32166-9	BS25-76 0'	Total/NA	Solid	SHAKE	
885-32166-10	BS25-77 0'	Total/NA	Solid	SHAKE	
885-32166-11	BS25-78 0'	Total/NA	Solid	SHAKE	
885-32166-12	BS25-79 0'	Total/NA	Solid	SHAKE	
885-32166-13	BS25-80 0'	Total/NA	Solid	SHAKE	
MB 885-33743/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-33743/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-32166-9 MS	BS25-76 0'	Total/NA	Solid	SHAKE	
885-32166-9 MSD	BS25-76 0'	Total/NA	Solid	SHAKE	

Analysis Batch: 33782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-1	BS25-68 0'	Total/NA	Solid	8015M/D	33743
885-32166-8	BS25-75 0'	Total/NA	Solid	8015M/D	33743
885-32166-11	BS25-78 0'	Total/NA	Solid	8015M/D	33743
885-32166-13	BS25-80 0'	Total/NA	Solid	8015M/D	33743

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

GC Semi VOA

Analysis Batch: 33856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-6	BS25-73 0'	Total/NA	Solid	8015M/D	33743

Analysis Batch: 33954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-6	BS25-73 0'	Total/NA	Solid	8015M/D	33743

Prep Batch: 33971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-7	BS25-74 0'	Total/NA	Solid	SHAKE	
MB 885-33971/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-33971/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 34125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-7	BS25-74 0'	Total/NA	Solid	8015M/D	33971
MB 885-33971/1-A	Method Blank	Total/NA	Solid	8015M/D	33971
LCS 885-33971/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33971

HPLC/IC

Prep Batch: 33716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-1	BS25-68 0'	Total/NA	Solid	300_Prep	
885-32166-2	BS25-69 0'	Total/NA	Solid	300_Prep	
885-32166-3	BS25-70 0'	Total/NA	Solid	300_Prep	
885-32166-4	BS25-71 0'	Total/NA	Solid	300_Prep	
885-32166-5	BS25-72 0'	Total/NA	Solid	300_Prep	
885-32166-6	BS25-73 0'	Total/NA	Solid	300_Prep	
885-32166-7	BS25-74 0'	Total/NA	Solid	300_Prep	
885-32166-8	BS25-75 0'	Total/NA	Solid	300_Prep	
885-32166-9	BS25-76 0'	Total/NA	Solid	300_Prep	
885-32166-10	BS25-77 0'	Total/NA	Solid	300_Prep	
885-32166-11	BS25-78 0'	Total/NA	Solid	300_Prep	
885-32166-12	BS25-79 0'	Total/NA	Solid	300_Prep	
885-32166-13	BS25-80 0'	Total/NA	Solid	300_Prep	
MB 885-33716/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-33716/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 33730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-1	BS25-68 0'	Total/NA	Solid	300.0	33716
885-32166-2	BS25-69 0'	Total/NA	Solid	300.0	33716
885-32166-3	BS25-70 0'	Total/NA	Solid	300.0	33716
885-32166-4	BS25-71 0'	Total/NA	Solid	300.0	33716
885-32166-5	BS25-72 0'	Total/NA	Solid	300.0	33716
885-32166-6	BS25-73 0'	Total/NA	Solid	300.0	33716
885-32166-7	BS25-74 0'	Total/NA	Solid	300.0	33716
885-32166-8	BS25-75 0'	Total/NA	Solid	300.0	33716
885-32166-9	BS25-76 0'	Total/NA	Solid	300.0	33716
885-32166-10	BS25-77 0'	Total/NA	Solid	300.0	33716
885-32166-11	BS25-78 0'	Total/NA	Solid	300.0	33716

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QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

HPLC/IC (Continued)

Analysis Batch: 33730 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-32166-12	BS25-79 0'	Total/NA	Solid	300.0	33716
885-32166-13	BS25-80 0'	Total/NA	Solid	300.0	33716
MB 885-33716/1-A	Method Blank	Total/NA	Solid	300.0	33716
LCS 885-33716/2-A	Lab Control Sample	Total/NA	Solid	300.0	33716

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-68 0'

Lab Sample ID: 885-32166-1

Date Collected: 08/27/25 08:10

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8015M/D		1	33859	AT	EET ALB	09/03/25 16:31
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8021B		1	33860	AT	EET ALB	09/03/25 16:31
Total/NA	Prep	SHAKE			33743	EM	EET ALB	09/02/25 14:56
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/04/25 05:02
Total/NA	Prep	300_Prep			33716	RC	EET ALB	09/02/25 11:59
Total/NA	Analysis	300.0		10	33730	RC	EET ALB	09/02/25 16:40

Client Sample ID: BS25-69 0'

Lab Sample ID: 885-32166-2

Date Collected: 08/27/25 08:20

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8015M/D		1	33859	AT	EET ALB	09/03/25 17:36
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8021B		1	33860	AT	EET ALB	09/03/25 17:36
Total/NA	Prep	SHAKE			33743	EM	EET ALB	09/02/25 14:56
Total/NA	Analysis	8015M/D		10	33689	DH	EET ALB	09/02/25 18:04
Total/NA	Prep	300_Prep			33716	RC	EET ALB	09/02/25 11:59
Total/NA	Analysis	300.0		10	33730	RC	EET ALB	09/02/25 16:51

Client Sample ID: BS25-70 0'

Lab Sample ID: 885-32166-3

Date Collected: 08/27/25 08:30

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8015M/D		1	33859	AT	EET ALB	09/03/25 18:41
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8021B		1	33860	AT	EET ALB	09/03/25 18:41
Total/NA	Prep	SHAKE			33743	EM	EET ALB	09/02/25 14:56
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 18:16
Total/NA	Prep	300_Prep			33716	RC	EET ALB	09/02/25 11:59
Total/NA	Analysis	300.0		10	33730	RC	EET ALB	09/02/25 17:02

Client Sample ID: BS25-71 0'

Lab Sample ID: 885-32166-4

Date Collected: 08/27/25 08:40

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8015M/D		1	33859	AT	EET ALB	09/03/25 19:03

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-71 0'

Lab Sample ID: 885-32166-4

Date Collected: 08/27/25 08:40

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8021B		1	33860	AT	EET ALB	09/03/25 19:03
Total/NA	Prep	SHAKE			33743	EM	EET ALB	09/02/25 14:56
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 18:28
Total/NA	Prep	300_Prep			33716	RC	EET ALB	09/02/25 11:59
Total/NA	Analysis	300.0		10	33730	RC	EET ALB	09/02/25 17:13

Client Sample ID: BS25-72 0'

Lab Sample ID: 885-32166-5

Date Collected: 08/27/25 08:50

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8015M/D		1	33859	AT	EET ALB	09/03/25 19:25
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8021B		1	33860	AT	EET ALB	09/03/25 19:25
Total/NA	Prep	SHAKE			33743	EM	EET ALB	09/02/25 14:56
Total/NA	Analysis	8015M/D		10	33689	DH	EET ALB	09/02/25 18:39
Total/NA	Prep	300_Prep			33716	RC	EET ALB	09/02/25 11:59
Total/NA	Analysis	300.0		10	33730	RC	EET ALB	09/02/25 17:24

Client Sample ID: BS25-73 0'

Lab Sample ID: 885-32166-6

Date Collected: 08/27/25 09:00

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8015M/D		1	33859	AT	EET ALB	09/03/25 19:46
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8021B		1	33860	AT	EET ALB	09/03/25 19:46
Total/NA	Prep	SHAKE			33743	EM	EET ALB	09/02/25 14:56
Total/NA	Analysis	8015M/D		10	33954	BZR	EET ALB	09/05/25 10:40
Total/NA	Prep	SHAKE			33743	EM	EET ALB	09/02/25 14:56
Total/NA	Analysis	8015M/D		10	33856	EM	EET ALB	09/04/25 15:42
Total/NA	Prep	300_Prep			33716	RC	EET ALB	09/02/25 11:59
Total/NA	Analysis	300.0		10	33730	RC	EET ALB	09/02/25 17:35

Client Sample ID: BS25-74 0'

Lab Sample ID: 885-32166-7

Date Collected: 08/27/25 09:10

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8015M/D		1	33859	AT	EET ALB	09/03/25 20:08

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-74 0'

Lab Sample ID: 885-32166-7

Date Collected: 08/27/25 09:10

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8021B		1	33860	AT	EET ALB	09/03/25 20:08
Total/NA	Prep	SHAKE			33971	BZR	EET ALB	09/05/25 11:43
Total/NA	Analysis	8015M/D		1	34125	BZR	EET ALB	09/08/25 12:13
Total/NA	Prep	300_Prep			33716	RC	EET ALB	09/02/25 11:59
Total/NA	Analysis	300.0		10	33730	RC	EET ALB	09/02/25 17:45

Client Sample ID: BS25-75 0'

Lab Sample ID: 885-32166-8

Date Collected: 08/27/25 09:20

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8015M/D		1	33859	AT	EET ALB	09/03/25 20:30
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8021B		1	33860	AT	EET ALB	09/03/25 20:30
Total/NA	Prep	SHAKE			33743	EM	EET ALB	09/02/25 14:56
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/04/25 06:12
Total/NA	Prep	300_Prep			33716	RC	EET ALB	09/02/25 11:59
Total/NA	Analysis	300.0		10	33730	RC	EET ALB	09/02/25 17:56

Client Sample ID: BS25-76 0'

Lab Sample ID: 885-32166-9

Date Collected: 08/27/25 09:30

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8015M/D		1	33859	AT	EET ALB	09/03/25 20:52
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8021B		1	33860	AT	EET ALB	09/03/25 20:52
Total/NA	Prep	SHAKE			33743	EM	EET ALB	09/02/25 14:56
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 19:37
Total/NA	Prep	300_Prep			33716	RC	EET ALB	09/02/25 11:59
Total/NA	Analysis	300.0		10	33730	RC	EET ALB	09/02/25 18:29

Client Sample ID: BS25-77 0'

Lab Sample ID: 885-32166-10

Date Collected: 08/27/25 09:40

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8015M/D		1	33859	AT	EET ALB	09/03/25 21:13
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8021B		1	33860	AT	EET ALB	09/03/25 21:13

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-77 0'

Lab Sample ID: 885-32166-10

Date Collected: 08/27/25 09:40

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			33743	EM	EET ALB	09/02/25 14:56
Total/NA	Analysis	8015M/D		1	33689	DH	EET ALB	09/02/25 20:12
Total/NA	Prep	300_Prep			33716	RC	EET ALB	09/02/25 11:59
Total/NA	Analysis	300.0		10	33730	RC	EET ALB	09/02/25 18:40

Client Sample ID: BS25-78 0'

Lab Sample ID: 885-32166-11

Date Collected: 08/27/25 09:50

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8015M/D		1	33859	AT	EET ALB	09/03/25 21:57
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8021B		1	33860	AT	EET ALB	09/03/25 21:57
Total/NA	Prep	SHAKE			33743	EM	EET ALB	09/02/25 14:56
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/04/25 06:36
Total/NA	Prep	300_Prep			33716	RC	EET ALB	09/02/25 11:59
Total/NA	Analysis	300.0		10	33730	RC	EET ALB	09/02/25 18:50

Client Sample ID: BS25-79 0'

Lab Sample ID: 885-32166-12

Date Collected: 08/27/25 10:00

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8015M/D		1	33859	AT	EET ALB	09/03/25 22:18
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8021B		1	33860	AT	EET ALB	09/03/25 22:18
Total/NA	Prep	SHAKE			33743	EM	EET ALB	09/02/25 14:56
Total/NA	Analysis	8015M/D		5	33689	DH	EET ALB	09/02/25 20:35
Total/NA	Prep	300_Prep			33716	RC	EET ALB	09/02/25 11:59
Total/NA	Analysis	300.0		10	33730	RC	EET ALB	09/02/25 19:01

Client Sample ID: BS25-80 0'

Lab Sample ID: 885-32166-13

Date Collected: 08/27/25 10:10

Matrix: Solid

Date Received: 08/29/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8015M/D		1	33859	AT	EET ALB	09/03/25 22:40
Total/NA	Prep	5030C			33694	KLS	EET ALB	09/02/25 10:43
Total/NA	Analysis	8021B		1	33860	AT	EET ALB	09/03/25 22:40
Total/NA	Prep	SHAKE			33743	EM	EET ALB	09/02/25 14:56
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/04/25 06:59

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Client Sample ID: BS25-80 0'
Date Collected: 08/27/25 10:10
Date Received: 08/29/25 07:45

Lab Sample ID: 885-32166-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			33716	RC	EET ALB	09/02/25 11:59
Total/NA	Analysis	300.0		10	33730	RC	EET ALB	09/02/25 19:12

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Accreditation/Certification Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-32166-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Eurofins Albuquerque

Chain-of-Custody Record

Client: **Vertex**

(direct bill to Devon, work order 1094064801)

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 <u>72-hour</u>
Project Name:	
SDE 31 Federal CTB	
Project #:	
24E-01499	
Project Manager:	
Kent Stallings, Sally Carttar	
kstallings@vertex.ca	
Samplers:	S. Minnix, L. Pullman
On Ice:	☒ Yes ☐ No <i>Abby</i>
# of Coolers:	1



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

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.

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-32166-1

Login Number: 32166

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kent Stallings
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 9/22/2025 4:48:03 PM

JOB DESCRIPTION

SDE 31 FED CTB

JOB NUMBER

885-33205-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Vertex
Project/Site: SDE 31 FED CTB

Laboratory Job ID: 885-33205-1

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Definitions/Glossary

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: SDE 31 FED CTB

Job ID: 885-33205-1

Job ID: 885-33205-1

Eurofins Albuquerque

Job Narrative 885-33205-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/13/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

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Client Sample Results

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: WS25-02 0-1'

Lab Sample ID: 885-33205-1

Date Collected: 09/11/25 12:40

Matrix: Solid

Date Received: 09/13/25 08:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		09/17/25 12:44	09/20/25 02:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			09/17/25 12:44	09/20/25 02:26	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/17/25 12:44	09/20/25 02:26	1
Ethylbenzene	ND		0.048	mg/Kg		09/17/25 12:44	09/20/25 02:26	1
Toluene	ND		0.048	mg/Kg		09/17/25 12:44	09/20/25 02:26	1
Xylenes, Total	ND		0.097	mg/Kg		09/17/25 12:44	09/20/25 02:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			09/17/25 12:44	09/20/25 02:26	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	210		48	mg/Kg		09/18/25 11:58	09/18/25 19:53	5
Motor Oil Range Organics [C28-C40]	570		240	mg/Kg		09/18/25 11:58	09/18/25 19:53	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	123		62 - 134			09/18/25 11:58	09/18/25 19:53	5

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		50	mg/Kg		09/17/25 16:24	09/18/25 01:27	10

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Client Sample Results

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: WS25-13 0-0.25'

Lab Sample ID: 885-33205-2

Date Collected: 09/11/25 12:45

Matrix: Solid

Date Received: 09/13/25 08:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		09/17/25 12:44	09/20/25 03:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			09/17/25 12:44	09/20/25 03:37	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/17/25 12:44	09/20/25 03:37	1
Ethylbenzene	ND		0.048	mg/Kg		09/17/25 12:44	09/20/25 03:37	1
Toluene	ND		0.048	mg/Kg		09/17/25 12:44	09/20/25 03:37	1
Xylenes, Total	ND		0.096	mg/Kg		09/17/25 12:44	09/20/25 03:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			09/17/25 12:44	09/20/25 03:37	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12		10	mg/Kg		09/18/25 11:58	09/18/25 20:30	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/18/25 11:58	09/18/25 20:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			09/18/25 11:58	09/18/25 20:30	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		50	mg/Kg		09/17/25 16:24	09/18/25 01:38	10

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Client Sample Results

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: WS25-14 0-0.25'

Lab Sample ID: 885-33205-3

Date Collected: 09/11/25 12:50

Matrix: Solid

Date Received: 09/13/25 08:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		09/17/25 12:44	09/20/25 04:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			09/17/25 12:44	09/20/25 04:01	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/17/25 12:44	09/20/25 04:01	1
Ethylbenzene	ND		0.049	mg/Kg		09/17/25 12:44	09/20/25 04:01	1
Toluene	ND		0.049	mg/Kg		09/17/25 12:44	09/20/25 04:01	1
Xylenes, Total	ND		0.099	mg/Kg		09/17/25 12:44	09/20/25 04:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 150			09/17/25 12:44	09/20/25 04:01	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	160		9.7	mg/Kg		09/18/25 11:58	09/18/25 20:43	1
Motor Oil Range Organics [C28-C40]	220		48	mg/Kg		09/18/25 11:58	09/18/25 20:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			09/18/25 11:58	09/18/25 20:43	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		50	mg/Kg		09/17/25 16:24	09/18/25 01:48	10

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Client Sample Results

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: WS25-15 0-0.25'

Lab Sample ID: 885-33205-4

Date Collected: 09/11/25 12:55

Matrix: Solid

Date Received: 09/13/25 08:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6	mg/Kg		09/17/25 12:44	09/20/25 04:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			09/17/25 12:44	09/20/25 04:25	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/17/25 12:44	09/20/25 04:25	1
Ethylbenzene	ND		0.046	mg/Kg		09/17/25 12:44	09/20/25 04:25	1
Toluene	ND		0.046	mg/Kg		09/17/25 12:44	09/20/25 04:25	1
Xylenes, Total	ND		0.092	mg/Kg		09/17/25 12:44	09/20/25 04:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			09/17/25 12:44	09/20/25 04:25	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	210		48	mg/Kg		09/18/25 11:58	09/18/25 21:20	5
Motor Oil Range Organics [C28-C40]	400		240	mg/Kg		09/18/25 11:58	09/18/25 21:20	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			09/18/25 11:58	09/18/25 21:20	5

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		09/17/25 16:24	09/18/25 02:19	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: BS25-29 0.25'

Lab Sample ID: 885-33205-5

Date Collected: 09/11/25 13:00

Matrix: Solid

Date Received: 09/13/25 08:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		09/17/25 12:44	09/20/25 04:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			09/17/25 12:44	09/20/25 04:48	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/17/25 12:44	09/20/25 04:48	1
Ethylbenzene	ND		0.048	mg/Kg		09/17/25 12:44	09/20/25 04:48	1
Toluene	ND		0.048	mg/Kg		09/17/25 12:44	09/20/25 04:48	1
Xylenes, Total	ND		0.097	mg/Kg		09/17/25 12:44	09/20/25 04:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			09/17/25 12:44	09/20/25 04:48	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		09/18/25 11:58	09/18/25 21:57	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/18/25 11:58	09/18/25 21:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	118		62 - 134			09/18/25 11:58	09/18/25 21:57	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3300		50	mg/Kg		09/17/25 16:24	09/18/25 02:29	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: BS25-50 0.25'

Lab Sample ID: 885-33205-6

Date Collected: 09/11/25 13:05

Matrix: Solid

Date Received: 09/13/25 08:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		09/17/25 12:44	09/20/25 05:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			09/17/25 12:44	09/20/25 05:12	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/17/25 12:44	09/20/25 05:12	1
Ethylbenzene	ND		0.047	mg/Kg		09/17/25 12:44	09/20/25 05:12	1
Toluene	ND		0.047	mg/Kg		09/17/25 12:44	09/20/25 05:12	1
Xylenes, Total	ND		0.094	mg/Kg		09/17/25 12:44	09/20/25 05:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			09/17/25 12:44	09/20/25 05:12	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	220		9.5	mg/Kg		09/18/25 11:58	09/18/25 22:09	1
Motor Oil Range Organics [C28-C40]	270		47	mg/Kg		09/18/25 11:58	09/18/25 22:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			09/18/25 11:58	09/18/25 22:09	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		50	mg/Kg		09/18/25 09:14	09/18/25 11:23	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: BS25-73 0.25'

Lab Sample ID: 885-33205-7

Date Collected: 09/11/25 13:10

Matrix: Solid

Date Received: 09/13/25 08:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		09/17/25 12:44	09/20/25 05:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			09/17/25 12:44	09/20/25 05:36	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/17/25 12:44	09/20/25 05:36	1
Ethylbenzene	ND		0.047	mg/Kg		09/17/25 12:44	09/20/25 05:36	1
Toluene	ND		0.047	mg/Kg		09/17/25 12:44	09/20/25 05:36	1
Xylenes, Total	ND		0.095	mg/Kg		09/17/25 12:44	09/20/25 05:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			09/17/25 12:44	09/20/25 05:36	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	270		48	mg/Kg		09/18/25 11:58	09/18/25 22:47	5
Motor Oil Range Organics [C28-C40]	550		240	mg/Kg		09/18/25 11:58	09/18/25 22:47	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	134		62 - 134			09/18/25 11:58	09/18/25 22:47	5

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82		51	mg/Kg		09/18/25 09:14	09/18/25 12:04	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: BS25-81 0.25'

Lab Sample ID: 885-33205-8

Date Collected: 09/11/25 13:15

Matrix: Solid

Date Received: 09/13/25 08:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		09/17/25 12:44	09/20/25 06:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			09/17/25 12:44	09/20/25 06:00	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/17/25 12:44	09/20/25 06:00	1
Ethylbenzene	ND		0.049	mg/Kg		09/17/25 12:44	09/20/25 06:00	1
Toluene	ND		0.049	mg/Kg		09/17/25 12:44	09/20/25 06:00	1
Xylenes, Total	ND		0.099	mg/Kg		09/17/25 12:44	09/20/25 06:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			09/17/25 12:44	09/20/25 06:00	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		09/18/25 11:58	09/18/25 23:12	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/18/25 11:58	09/18/25 23:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			09/18/25 11:58	09/18/25 23:12	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		50	mg/Kg		09/18/25 09:14	09/18/25 12:18	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: BS25-82 0.25'

Lab Sample ID: 885-33205-9

Date Collected: 09/11/25 13:20

Matrix: Solid

Date Received: 09/13/25 08:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		09/17/25 12:44	09/20/25 06:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			09/17/25 12:44	09/20/25 06:24	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/17/25 12:44	09/20/25 06:24	1
Ethylbenzene	ND		0.049	mg/Kg		09/17/25 12:44	09/20/25 06:24	1
Toluene	ND		0.049	mg/Kg		09/17/25 12:44	09/20/25 06:24	1
Xylenes, Total	ND		0.099	mg/Kg		09/17/25 12:44	09/20/25 06:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			09/17/25 12:44	09/20/25 06:24	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	76		9.4	mg/Kg		09/18/25 11:58	09/18/25 23:24	1
Motor Oil Range Organics [C28-C40]	94		47	mg/Kg		09/18/25 11:58	09/18/25 23:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			09/18/25 11:58	09/18/25 23:24	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		50	mg/Kg		09/18/25 09:14	09/18/25 12:32	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: BS25-83 0.25'

Lab Sample ID: 885-33205-10

Date Collected: 09/11/25 13:25

Matrix: Solid

Date Received: 09/13/25 08:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		09/17/25 12:44	09/20/25 07:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			09/17/25 12:44	09/20/25 07:11	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/17/25 12:44	09/20/25 07:11	1
Ethylbenzene	ND		0.047	mg/Kg		09/17/25 12:44	09/20/25 07:11	1
Toluene	ND		0.047	mg/Kg		09/17/25 12:44	09/20/25 07:11	1
Xylenes, Total	ND		0.095	mg/Kg		09/17/25 12:44	09/20/25 07:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			09/17/25 12:44	09/20/25 07:11	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	230		46	mg/Kg		09/18/25 11:58	09/18/25 23:37	5
Motor Oil Range Organics [C28-C40]	540		230	mg/Kg		09/18/25 11:58	09/18/25 23:37	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	133		62 - 134			09/18/25 11:58	09/18/25 23:37	5

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		09/18/25 09:14	09/18/25 13:13	10

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-34851/1-A

Matrix: Solid

Analysis Batch: 35101

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34851

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		09/17/25 12:44	09/20/25 00:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			09/17/25 12:44	09/20/25 00:50	1

Lab Sample ID: LCS 885-34851/2-A

Matrix: Solid

Analysis Batch: 35101

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	23.5		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	196		15 - 150				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-34851/1-A

Matrix: Solid

Analysis Batch: 35102

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34851

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/17/25 12:44	09/20/25 00:50	1
Ethylbenzene	ND		0.050	mg/Kg		09/17/25 12:44	09/20/25 00:50	1
Toluene	ND		0.050	mg/Kg		09/17/25 12:44	09/20/25 00:50	1
Xylenes, Total	ND		0.10	mg/Kg		09/17/25 12:44	09/20/25 00:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			09/17/25 12:44	09/20/25 00:50	1

Lab Sample ID: LCS 885-34851/3-A

Matrix: Solid

Analysis Batch: 35102

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.04		mg/Kg		104	70 - 130
Ethylbenzene	1.00	1.04		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	2.00	2.05		mg/Kg		103	70 - 130
o-Xylene	1.00	1.02		mg/Kg		102	70 - 130
Toluene	1.00	1.04		mg/Kg		104	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	104		15 - 150				

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-33205-1 MS

Matrix: Solid

Analysis Batch: 35102

Client Sample ID: WS25-02 0-1'

Prep Type: Total/NA

Prep Batch: 34851

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.963	1.06		mg/Kg		110	70 - 130
Ethylbenzene	ND		0.963	1.07		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	ND		1.93	2.12		mg/Kg		109	70 - 130
o-Xylene	ND		0.963	1.05		mg/Kg		107	70 - 130
Toluene	ND		0.963	1.05		mg/Kg		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		15 - 150

Lab Sample ID: 885-33205-1 MSD

Matrix: Solid

Analysis Batch: 35102

Client Sample ID: WS25-02 0-1'

Prep Type: Total/NA

Prep Batch: 34851

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.975	1.07		mg/Kg		109	70 - 130	0	20
Ethylbenzene	ND		0.975	1.08		mg/Kg		110	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.95	2.16		mg/Kg		109	70 - 130	2	20
o-Xylene	ND		0.975	1.07		mg/Kg		109	70 - 130	3	20
Toluene	ND		0.975	1.07		mg/Kg		110	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		15 - 150

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-34960/1-A

Matrix: Solid

Analysis Batch: 34915

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34960

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/18/25 11:58	09/18/25 16:59	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/18/25 11:58	09/18/25 16:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134	09/18/25 11:58	09/18/25 16:59	1

Lab Sample ID: LCS 885-34960/2-A

Matrix: Solid

Analysis Batch: 34915

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	58.8		mg/Kg		118	51 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	119		62 - 134

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-33205-1

Project/Site: SDE 31 FED CTB

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-34890/1-A

Matrix: Solid

Analysis Batch: 34808

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34890

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.1	mg/Kg		09/17/25 16:24	09/17/25 21:09	1

Lab Sample ID: LCS 885-34890/2-A

Matrix: Solid

Analysis Batch: 34808

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34890

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.2	49.2		mg/Kg		98	90 - 110

Lab Sample ID: MB 885-34924/1-A

Matrix: Solid

Analysis Batch: 34930

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34924

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		4.9	mg/Kg		09/18/25 09:14	09/18/25 10:29	1

Lab Sample ID: LCS 885-34924/2-A

Matrix: Solid

Analysis Batch: 34930

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	49.8	48.4		mg/Kg		97	90 - 110

Lab Sample ID: 885-33205-6 MS

Matrix: Solid

Analysis Batch: 34930

Client Sample ID: BS25-50 0.25'

Prep Type: Total/NA

Prep Batch: 34924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	330		50.0	375	4	mg/Kg		90	50 - 150

Lab Sample ID: 885-33205-6 MSD

Matrix: Solid

Analysis Batch: 34930

Client Sample ID: BS25-50 0.25'

Prep Type: Total/NA

Prep Batch: 34924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	330		49.5	366	4	mg/Kg		73	50 - 150	2	20

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QC Association Summary

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

GC VOA

Prep Batch: 34851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33205-1	WS25-02 0-1'	Total/NA	Solid	5030C	
885-33205-2	WS25-13 0-0.25'	Total/NA	Solid	5030C	
885-33205-3	WS25-14 0-0.25'	Total/NA	Solid	5030C	
885-33205-4	WS25-15 0-0.25'	Total/NA	Solid	5030C	
885-33205-5	BS25-29 0.25'	Total/NA	Solid	5030C	
885-33205-6	BS25-50 0.25'	Total/NA	Solid	5030C	
885-33205-7	BS25-73 0.25'	Total/NA	Solid	5030C	
885-33205-8	BS25-81 0.25'	Total/NA	Solid	5030C	
885-33205-9	BS25-82 0.25'	Total/NA	Solid	5030C	
885-33205-10	BS25-83 0.25'	Total/NA	Solid	5030C	
MB 885-34851/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-34851/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-34851/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-33205-1 MS	WS25-02 0-1'	Total/NA	Solid	5030C	
885-33205-1 MSD	WS25-02 0-1'	Total/NA	Solid	5030C	

Analysis Batch: 35101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33205-1	WS25-02 0-1'	Total/NA	Solid	8015M/D	34851
885-33205-2	WS25-13 0-0.25'	Total/NA	Solid	8015M/D	34851
885-33205-3	WS25-14 0-0.25'	Total/NA	Solid	8015M/D	34851
885-33205-4	WS25-15 0-0.25'	Total/NA	Solid	8015M/D	34851
885-33205-5	BS25-29 0.25'	Total/NA	Solid	8015M/D	34851
885-33205-6	BS25-50 0.25'	Total/NA	Solid	8015M/D	34851
885-33205-7	BS25-73 0.25'	Total/NA	Solid	8015M/D	34851
885-33205-8	BS25-81 0.25'	Total/NA	Solid	8015M/D	34851
885-33205-9	BS25-82 0.25'	Total/NA	Solid	8015M/D	34851
885-33205-10	BS25-83 0.25'	Total/NA	Solid	8015M/D	34851
MB 885-34851/1-A	Method Blank	Total/NA	Solid	8015M/D	34851
LCS 885-34851/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	34851

Analysis Batch: 35102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33205-1	WS25-02 0-1'	Total/NA	Solid	8021B	34851
885-33205-2	WS25-13 0-0.25'	Total/NA	Solid	8021B	34851
885-33205-3	WS25-14 0-0.25'	Total/NA	Solid	8021B	34851
885-33205-4	WS25-15 0-0.25'	Total/NA	Solid	8021B	34851
885-33205-5	BS25-29 0.25'	Total/NA	Solid	8021B	34851
885-33205-6	BS25-50 0.25'	Total/NA	Solid	8021B	34851
885-33205-7	BS25-73 0.25'	Total/NA	Solid	8021B	34851
885-33205-8	BS25-81 0.25'	Total/NA	Solid	8021B	34851
885-33205-9	BS25-82 0.25'	Total/NA	Solid	8021B	34851
885-33205-10	BS25-83 0.25'	Total/NA	Solid	8021B	34851
MB 885-34851/1-A	Method Blank	Total/NA	Solid	8021B	34851
LCS 885-34851/3-A	Lab Control Sample	Total/NA	Solid	8021B	34851
885-33205-1 MS	WS25-02 0-1'	Total/NA	Solid	8021B	34851
885-33205-1 MSD	WS25-02 0-1'	Total/NA	Solid	8021B	34851

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

GC Semi VOA

Analysis Batch: 34915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33205-1	WS25-02 0-1'	Total/NA	Solid	8015M/D	34960
885-33205-2	WS25-13 0-0.25'	Total/NA	Solid	8015M/D	34960
885-33205-3	WS25-14 0-0.25'	Total/NA	Solid	8015M/D	34960
885-33205-4	WS25-15 0-0.25'	Total/NA	Solid	8015M/D	34960
885-33205-5	BS25-29 0.25'	Total/NA	Solid	8015M/D	34960
885-33205-6	BS25-50 0.25'	Total/NA	Solid	8015M/D	34960
885-33205-7	BS25-73 0.25'	Total/NA	Solid	8015M/D	34960
885-33205-8	BS25-81 0.25'	Total/NA	Solid	8015M/D	34960
885-33205-9	BS25-82 0.25'	Total/NA	Solid	8015M/D	34960
885-33205-10	BS25-83 0.25'	Total/NA	Solid	8015M/D	34960
MB 885-34960/1-A	Method Blank	Total/NA	Solid	8015M/D	34960
LCS 885-34960/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	34960

Prep Batch: 34960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33205-1	WS25-02 0-1'	Total/NA	Solid	SHAKE	
885-33205-2	WS25-13 0-0.25'	Total/NA	Solid	SHAKE	
885-33205-3	WS25-14 0-0.25'	Total/NA	Solid	SHAKE	
885-33205-4	WS25-15 0-0.25'	Total/NA	Solid	SHAKE	
885-33205-5	BS25-29 0.25'	Total/NA	Solid	SHAKE	
885-33205-6	BS25-50 0.25'	Total/NA	Solid	SHAKE	
885-33205-7	BS25-73 0.25'	Total/NA	Solid	SHAKE	
885-33205-8	BS25-81 0.25'	Total/NA	Solid	SHAKE	
885-33205-9	BS25-82 0.25'	Total/NA	Solid	SHAKE	
885-33205-10	BS25-83 0.25'	Total/NA	Solid	SHAKE	
MB 885-34960/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-34960/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Analysis Batch: 34808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33205-1	WS25-02 0-1'	Total/NA	Solid	300.0	34890
885-33205-2	WS25-13 0-0.25'	Total/NA	Solid	300.0	34890
885-33205-3	WS25-14 0-0.25'	Total/NA	Solid	300.0	34890
885-33205-4	WS25-15 0-0.25'	Total/NA	Solid	300.0	34890
885-33205-5	BS25-29 0.25'	Total/NA	Solid	300.0	34890
MB 885-34890/1-A	Method Blank	Total/NA	Solid	300.0	34890
LCS 885-34890/2-A	Lab Control Sample	Total/NA	Solid	300.0	34890

Prep Batch: 34890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33205-1	WS25-02 0-1'	Total/NA	Solid	300_Prep	
885-33205-2	WS25-13 0-0.25'	Total/NA	Solid	300_Prep	
885-33205-3	WS25-14 0-0.25'	Total/NA	Solid	300_Prep	
885-33205-4	WS25-15 0-0.25'	Total/NA	Solid	300_Prep	
885-33205-5	BS25-29 0.25'	Total/NA	Solid	300_Prep	
MB 885-34890/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-34890/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

HPLC/IC

Prep Batch: 34924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33205-6	BS25-50 0.25'	Total/NA	Solid	300_Prep	
885-33205-7	BS25-73 0.25'	Total/NA	Solid	300_Prep	
885-33205-8	BS25-81 0.25'	Total/NA	Solid	300_Prep	
885-33205-9	BS25-82 0.25'	Total/NA	Solid	300_Prep	
885-33205-10	BS25-83 0.25'	Total/NA	Solid	300_Prep	
MB 885-34924/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-34924/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-33205-6 MS	BS25-50 0.25'	Total/NA	Solid	300_Prep	
885-33205-6 MSD	BS25-50 0.25'	Total/NA	Solid	300_Prep	

Analysis Batch: 34930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33205-6	BS25-50 0.25'	Total/NA	Solid	300.0	34924
885-33205-7	BS25-73 0.25'	Total/NA	Solid	300.0	34924
885-33205-8	BS25-81 0.25'	Total/NA	Solid	300.0	34924
885-33205-9	BS25-82 0.25'	Total/NA	Solid	300.0	34924
885-33205-10	BS25-83 0.25'	Total/NA	Solid	300.0	34924
MB 885-34924/1-A	Method Blank	Total/NA	Solid	300.0	34924
LCS 885-34924/2-A	Lab Control Sample	Total/NA	Solid	300.0	34924
885-33205-6 MS	BS25-50 0.25'	Total/NA	Solid	300.0	34924
885-33205-6 MSD	BS25-50 0.25'	Total/NA	Solid	300.0	34924

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: WS25-02 0-1'

Lab Sample ID: 885-33205-1

Date Collected: 09/11/25 12:40

Matrix: Solid

Date Received: 09/13/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8015M/D		1	35101	KLS	EET ALB	09/20/25 02:26
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8021B		1	35102	TC1	EET ALB	09/20/25 02:26
Total/NA	Prep	SHAKE			34960	BZR	EET ALB	09/18/25 11:58
Total/NA	Analysis	8015M/D		5	34915	EM	EET ALB	09/18/25 19:53
Total/NA	Prep	300_Prep			34890	RC	EET ALB	09/17/25 16:24
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/18/25 01:27

Client Sample ID: WS25-13 0-0.25'

Lab Sample ID: 885-33205-2

Date Collected: 09/11/25 12:45

Matrix: Solid

Date Received: 09/13/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8015M/D		1	35101	KLS	EET ALB	09/20/25 03:37
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8021B		1	35102	TC1	EET ALB	09/20/25 03:37
Total/NA	Prep	SHAKE			34960	BZR	EET ALB	09/18/25 11:58
Total/NA	Analysis	8015M/D		1	34915	EM	EET ALB	09/18/25 20:30
Total/NA	Prep	300_Prep			34890	RC	EET ALB	09/17/25 16:24
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/18/25 01:38

Client Sample ID: WS25-14 0-0.25'

Lab Sample ID: 885-33205-3

Date Collected: 09/11/25 12:50

Matrix: Solid

Date Received: 09/13/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8015M/D		1	35101	KLS	EET ALB	09/20/25 04:01
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8021B		1	35102	TC1	EET ALB	09/20/25 04:01
Total/NA	Prep	SHAKE			34960	BZR	EET ALB	09/18/25 11:58
Total/NA	Analysis	8015M/D		1	34915	EM	EET ALB	09/18/25 20:43
Total/NA	Prep	300_Prep			34890	RC	EET ALB	09/17/25 16:24
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/18/25 01:48

Client Sample ID: WS25-15 0-0.25'

Lab Sample ID: 885-33205-4

Date Collected: 09/11/25 12:55

Matrix: Solid

Date Received: 09/13/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8015M/D		1	35101	KLS	EET ALB	09/20/25 04:25

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: WS25-15 0-0.25'

Lab Sample ID: 885-33205-4

Date Collected: 09/11/25 12:55

Matrix: Solid

Date Received: 09/13/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8021B		1	35102	TC1	EET ALB	09/20/25 04:25
Total/NA	Prep	SHAKE			34960	BZR	EET ALB	09/18/25 11:58
Total/NA	Analysis	8015M/D		5	34915	EM	EET ALB	09/18/25 21:20
Total/NA	Prep	300_Prep			34890	RC	EET ALB	09/17/25 16:24
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/18/25 02:19

Client Sample ID: BS25-29 0.25'

Lab Sample ID: 885-33205-5

Date Collected: 09/11/25 13:00

Matrix: Solid

Date Received: 09/13/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8015M/D		1	35101	KLS	EET ALB	09/20/25 04:48
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8021B		1	35102	TC1	EET ALB	09/20/25 04:48
Total/NA	Prep	SHAKE			34960	BZR	EET ALB	09/18/25 11:58
Total/NA	Analysis	8015M/D		1	34915	EM	EET ALB	09/18/25 21:57
Total/NA	Prep	300_Prep			34890	RC	EET ALB	09/17/25 16:24
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/18/25 02:29

Client Sample ID: BS25-50 0.25'

Lab Sample ID: 885-33205-6

Date Collected: 09/11/25 13:05

Matrix: Solid

Date Received: 09/13/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8015M/D		1	35101	KLS	EET ALB	09/20/25 05:12
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8021B		1	35102	TC1	EET ALB	09/20/25 05:12
Total/NA	Prep	SHAKE			34960	BZR	EET ALB	09/18/25 11:58
Total/NA	Analysis	8015M/D		1	34915	EM	EET ALB	09/18/25 22:09
Total/NA	Prep	300_Prep			34924	MA	EET ALB	09/18/25 09:14
Total/NA	Analysis	300.0		10	34930	RC	EET ALB	09/18/25 11:23

Client Sample ID: BS25-73 0.25'

Lab Sample ID: 885-33205-7

Date Collected: 09/11/25 13:10

Matrix: Solid

Date Received: 09/13/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8015M/D		1	35101	KLS	EET ALB	09/20/25 05:36
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8021B		1	35102	TC1	EET ALB	09/20/25 05:36

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: BS25-73 0.25'

Lab Sample ID: 885-33205-7

Date Collected: 09/11/25 13:10

Matrix: Solid

Date Received: 09/13/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			34960	BZR	EET ALB	09/18/25 11:58
Total/NA	Analysis	8015M/D		5	34915	EM	EET ALB	09/18/25 22:47
Total/NA	Prep	300_Prep			34924	MA	EET ALB	09/18/25 09:14
Total/NA	Analysis	300.0		10	34930	RC	EET ALB	09/18/25 12:04

Client Sample ID: BS25-81 0.25'

Lab Sample ID: 885-33205-8

Date Collected: 09/11/25 13:15

Matrix: Solid

Date Received: 09/13/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8015M/D		1	35101	KLS	EET ALB	09/20/25 06:00
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8021B		1	35102	TC1	EET ALB	09/20/25 06:00
Total/NA	Prep	SHAKE			34960	BZR	EET ALB	09/18/25 11:58
Total/NA	Analysis	8015M/D		1	34915	EM	EET ALB	09/18/25 23:12
Total/NA	Prep	300_Prep			34924	MA	EET ALB	09/18/25 09:14
Total/NA	Analysis	300.0		10	34930	RC	EET ALB	09/18/25 12:18

Client Sample ID: BS25-82 0.25'

Lab Sample ID: 885-33205-9

Date Collected: 09/11/25 13:20

Matrix: Solid

Date Received: 09/13/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8015M/D		1	35101	KLS	EET ALB	09/20/25 06:24
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8021B		1	35102	TC1	EET ALB	09/20/25 06:24
Total/NA	Prep	SHAKE			34960	BZR	EET ALB	09/18/25 11:58
Total/NA	Analysis	8015M/D		1	34915	EM	EET ALB	09/18/25 23:24
Total/NA	Prep	300_Prep			34924	MA	EET ALB	09/18/25 09:14
Total/NA	Analysis	300.0		10	34930	RC	EET ALB	09/18/25 12:32

Client Sample ID: BS25-83 0.25'

Lab Sample ID: 885-33205-10

Date Collected: 09/11/25 13:25

Matrix: Solid

Date Received: 09/13/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8015M/D		1	35101	KLS	EET ALB	09/20/25 07:11
Total/NA	Prep	5030C			34851	JP	EET ALB	09/17/25 12:44
Total/NA	Analysis	8021B		1	35102	TC1	EET ALB	09/20/25 07:11
Total/NA	Prep	SHAKE			34960	BZR	EET ALB	09/18/25 11:58
Total/NA	Analysis	8015M/D		5	34915	EM	EET ALB	09/18/25 23:37

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Client Sample ID: BS25-83 0.25'
Date Collected: 09/11/25 13:25
Date Received: 09/13/25 08:00

Lab Sample ID: 885-33205-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			34924	MA	EET ALB	09/18/25 09:14
Total/NA	Analysis	300.0		10	34930	RC	EET ALB	09/18/25 13:13

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Accreditation/Certification Summary

Client: Vertex
Project/Site: SDE 31 FED CTB

Job ID: 885-33205-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-33205-1

Login Number: 33205

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

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JOB DESCRIPTION

SDE 31 Fed CTB

JOB NUMBER

885-34694-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
Andy Freeman, Business Unit Manager
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(505)345-3975

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Client: Vertex
Project/Site: SDE 31 Fed CTB

Laboratory Job ID: 885-34694-1

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Definitions/Glossary

Client: Vertex

Job ID: 885-34694-1

Project/Site: SDE 31 Fed CTB

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: SDE 31 Fed CTB

Job ID: 885-34694-1

Job ID: 885-34694-1

Eurofins Albuquerque

Job Narrative 885-34694-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 10/3/2025 8:05 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-34694-1

Client Sample ID: Backfill-01

Lab Sample ID: 885-34694-1

Date Collected: 10/01/25 14:30

Matrix: Solid

Date Received: 10/03/25 08:05

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		10/03/25 10:00	10/05/25 11:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			10/03/25 10:00	10/05/25 11:52	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		10/03/25 10:00	10/05/25 11:52	1
Ethylbenzene	ND		0.049	mg/Kg		10/03/25 10:00	10/05/25 11:52	1
Toluene	ND		0.049	mg/Kg		10/03/25 10:00	10/05/25 11:52	1
Xylenes, Total	ND		0.098	mg/Kg		10/03/25 10:00	10/05/25 11:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			10/03/25 10:00	10/05/25 11:52	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		10/06/25 11:28	10/07/25 13:07	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		10/06/25 11:28	10/07/25 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			10/06/25 11:28	10/07/25 13:07	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		51	mg/Kg		10/04/25 12:39	10/04/25 18:59	10

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-34694-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-35992/1-A

Matrix: Solid

Analysis Batch: 36102

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35992

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		10/03/25 09:52	10/05/25 02:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			10/03/25 09:52	10/05/25 02:46	1

Lab Sample ID: LCS 885-35992/2-A

Matrix: Solid

Analysis Batch: 36102

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	22.8		mg/Kg		91	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	201		15 - 150				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-35992/1-A

Matrix: Solid

Analysis Batch: 36101

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35992

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		10/03/25 09:52	10/05/25 02:46	1
Ethylbenzene	ND		0.050	mg/Kg		10/03/25 09:52	10/05/25 02:46	1
Toluene	ND		0.050	mg/Kg		10/03/25 09:52	10/05/25 02:46	1
Xylenes, Total	ND		0.10	mg/Kg		10/03/25 09:52	10/05/25 02:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			10/03/25 09:52	10/05/25 02:46	1

Lab Sample ID: LCS 885-35992/3-A

Matrix: Solid

Analysis Batch: 36101

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.922		mg/Kg		92	70 - 130
Ethylbenzene	1.00	0.921		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	2.00	1.79		mg/Kg		90	70 - 130
o-Xylene	1.00	0.912		mg/Kg		91	70 - 130
Toluene	1.00	0.900		mg/Kg		90	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	94		15 - 150				

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-34694-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-36164/1-A

Matrix: Solid

Analysis Batch: 36238

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36164

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		10/06/25 11:28	10/07/25 12:44	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		10/06/25 11:28	10/07/25 12:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	86		62 - 134			10/06/25 11:28	10/07/25 12:44	1

Lab Sample ID: LCS 885-36164/2-A

Matrix: Solid

Analysis Batch: 36238

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Diesel Range Organics [C10-C28]	50.0	39.9		mg/Kg		80	51 - 148	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Di-n-octyl phthalate (Surr)	89		62 - 134					

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-36098/1-A

Matrix: Solid

Analysis Batch: 36104

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36098

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		4.9	mg/Kg		10/04/25 12:39	10/04/25 14:00	1
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Chloride	89		62 - 134					

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	50.0	48.1		mg/Kg		96	90 - 110	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-34694-1

GC VOA

Prep Batch: 35992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34694-1	Backfill-01	Total/NA	Solid	5030C	
MB 885-35992/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-35992/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-35992/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 36101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34694-1	Backfill-01	Total/NA	Solid	8021B	35992
MB 885-35992/1-A	Method Blank	Total/NA	Solid	8021B	35992
LCS 885-35992/3-A	Lab Control Sample	Total/NA	Solid	8021B	35992

Analysis Batch: 36102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34694-1	Backfill-01	Total/NA	Solid	8015M/D	35992
MB 885-35992/1-A	Method Blank	Total/NA	Solid	8015M/D	35992
LCS 885-35992/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	35992

GC Semi VOA

Prep Batch: 36164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34694-1	Backfill-01	Total/NA	Solid	SHAKE	
MB 885-36164/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-36164/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 36238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34694-1	Backfill-01	Total/NA	Solid	8015M/D	36164
MB 885-36164/1-A	Method Blank	Total/NA	Solid	8015M/D	36164
LCS 885-36164/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	36164

HPLC/IC

Prep Batch: 36098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34694-1	Backfill-01	Total/NA	Solid	300_Prep	
MB 885-36098/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-36098/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 36104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34694-1	Backfill-01	Total/NA	Solid	300.0	36098
MB 885-36098/1-A	Method Blank	Total/NA	Solid	300.0	36098
LCS 885-36098/2-A	Lab Control Sample	Total/NA	Solid	300.0	36098

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-34694-1

Client Sample ID: Backfill-01

Lab Sample ID: 885-34694-1

Date Collected: 10/01/25 14:30

Matrix: Solid

Date Received: 10/03/25 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35992	CM	EET ALB	10/03/25 10:00
Total/NA	Analysis	8015M/D		1	36102	AT	EET ALB	10/05/25 11:52
Total/NA	Prep	5030C			35992	CM	EET ALB	10/03/25 10:00
Total/NA	Analysis	8021B		1	36101	AT	EET ALB	10/05/25 11:52
Total/NA	Prep	SHAKE			36164	DH	EET ALB	10/06/25 11:28
Total/NA	Analysis	8015M/D		1	36238	BZR	EET ALB	10/07/25 13:07
Total/NA	Prep	300_Prep			36098	JT	EET ALB	10/04/25 12:39
Total/NA	Analysis	300.0		10	36104	JT	EET ALB	10/04/25 18:59

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex
Project/Site: SDE 31 Fed CTB

Job ID: 885-34694-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Age Group	Number of People
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-34694-1

SDG Number:

Login Number: 34694

List Source: Eurofins Albuquerque

List Number: 1

Creator: Proctor, Nancy

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kent Stallings
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 5/13/2026 11:34:02 AM

JOB DESCRIPTION

SDE 31 Federal CTB

JOB NUMBER

885-48761-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
5/13/2026 11:34:02 AM

Authorized for release by
Andy Freeman, Business Unit Manager
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(505)345-3975

Client: Vertex
Project/Site: SDE 31 Federal CTB

Laboratory Job ID: 885-48761-1

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Definitions/Glossary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: SDE 31 Federal CTB

Job ID: 885-48761-1

Job ID: 885-48761-1

Eurofins Albuquerque

Job Narrative 885-48761-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 5/6/2026 7:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C.

Gasoline Range Organics

Method 8015M/D: Surrogate recovery for the following sample was outside control limits: WS25-09 9' (885-48761-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC VOA

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

Diesel Range Organics

Method 8015M/D: The continuing calibration verification (CCV) associated with batch 885-48383 recovered outside acceptance criteria, low biased, for Di-n-octyl phthalate (Surr). The %D for the target compound, C10-C28 was within acceptable limits and another CCV was run before samples were analyzed. The following sample is associated (CCVRT 885-48383/2).

Method 8015M/D: The following sample required a dilution due to the nature of the sample matrix: BS25-10 2' (885-48761-25). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015M/D: Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: (885-48761-A-20-D MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported. This can be attributed to the sample matrix and the non homogenous nature of a solid sample..

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-12 1'

Lab Sample ID: 885-48761-1

Date Collected: 05/01/26 08:00

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/06/26 11:26	05/07/26 12:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			05/06/26 11:26	05/07/26 12:11	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 11:26	05/07/26 12:11	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 12:11	1
Toluene	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 12:11	1
Xylenes, Total	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 12:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			05/06/26 11:26	05/07/26 12:11	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	28		9.7	mg/Kg		05/08/26 09:30	05/11/26 12:13	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/08/26 09:30	05/11/26 12:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			05/08/26 09:30	05/11/26 12:13	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3400		51	mg/Kg		05/06/26 14:46	05/07/26 15:21	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-12 2'

Lab Sample ID: 885-48761-2

Date Collected: 05/01/26 08:10

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/06/26 11:26	05/07/26 13:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			05/06/26 11:26	05/07/26 13:17	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 11:26	05/07/26 13:17	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 13:17	1
Toluene	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 13:17	1
Xylenes, Total	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 13:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/06/26 11:26	05/07/26 13:17	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/08/26 09:30	05/11/26 12:25	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/08/26 09:30	05/11/26 12:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			05/08/26 09:30	05/11/26 12:25	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		50	mg/Kg		05/06/26 14:46	05/07/26 15:35	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-12 3'

Lab Sample ID: 885-48761-3

Date Collected: 05/01/26 08:20

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/06/26 11:26	05/07/26 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			05/06/26 11:26	05/07/26 14:23	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 11:26	05/07/26 14:23	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 14:23	1
Toluene	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 14:23	1
Xylenes, Total	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/06/26 11:26	05/07/26 14:23	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/08/26 09:30	05/11/26 12:37	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/08/26 09:30	05/11/26 12:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			05/08/26 09:30	05/11/26 12:37	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3500		50	mg/Kg		05/06/26 14:46	05/07/26 15:48	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-12 4'

Lab Sample ID: 885-48761-4

Date Collected: 05/01/26 08:30

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/06/26 11:26	05/07/26 14:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/06/26 11:26	05/07/26 14:45	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/26 11:26	05/07/26 14:45	1
Ethylbenzene	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 14:45	1
Toluene	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 14:45	1
Xylenes, Total	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 14:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			05/06/26 11:26	05/07/26 14:45	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/08/26 09:30	05/11/26 12:49	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/08/26 09:30	05/11/26 12:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			05/08/26 09:30	05/11/26 12:49	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6500		50	mg/Kg		05/06/26 14:46	05/07/26 16:02	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-12 5'

Lab Sample ID: 885-48761-5

Date Collected: 05/01/26 08:40

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	11		4.8	mg/Kg		05/06/26 11:26	05/07/26 15:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			05/06/26 11:26	05/07/26 15:07	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 11:26	05/07/26 15:07	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 15:07	1
Toluene	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 15:07	1
Xylenes, Total	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 15:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			05/06/26 11:26	05/07/26 15:07	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		05/08/26 09:30	05/11/26 13:01	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/08/26 09:30	05/11/26 13:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			05/08/26 09:30	05/11/26 13:01	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3900		50	mg/Kg		05/06/26 14:46	05/07/26 16:16	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-12 6'

Lab Sample ID: 885-48761-6

Date Collected: 05/01/26 08:50

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/06/26 11:26	05/07/26 15:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			05/06/26 11:26	05/07/26 15:29	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 11:26	05/07/26 15:29	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 15:29	1
Toluene	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 15:29	1
Xylenes, Total	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 15:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			05/06/26 11:26	05/07/26 15:29	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/08/26 09:30	05/11/26 13:13	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/08/26 09:30	05/11/26 13:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			05/08/26 09:30	05/11/26 13:13	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4200		50	mg/Kg		05/06/26 15:45	05/07/26 16:57	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-12 7'

Lab Sample ID: 885-48761-7

Date Collected: 05/01/26 09:00

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/06/26 11:26	05/07/26 15:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			05/06/26 11:26	05/07/26 15:51	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 11:26	05/07/26 15:51	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 15:51	1
Toluene	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 15:51	1
Xylenes, Total	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 15:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/06/26 11:26	05/07/26 15:51	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/08/26 09:30	05/11/26 13:26	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/08/26 09:30	05/11/26 13:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			05/08/26 09:30	05/11/26 13:26	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4900		50	mg/Kg		05/06/26 15:45	05/07/26 17:10	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-12 8'

Lab Sample ID: 885-48761-8

Date Collected: 05/01/26 09:10

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/06/26 11:26	05/07/26 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			05/06/26 11:26	05/07/26 16:13	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/26 11:26	05/07/26 16:13	1
Ethylbenzene	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 16:13	1
Toluene	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 16:13	1
Xylenes, Total	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/06/26 11:26	05/07/26 16:13	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		05/08/26 09:30	05/11/26 13:38	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/08/26 09:30	05/11/26 13:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			05/08/26 09:30	05/11/26 13:38	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	660		50	mg/Kg		05/06/26 15:45	05/07/26 18:46	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-12 9'

Lab Sample ID: 885-48761-9

Date Collected: 05/01/26 09:20

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6	mg/Kg		05/06/26 11:26	05/07/26 16:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			05/06/26 11:26	05/07/26 16:35	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/06/26 11:26	05/07/26 16:35	1
Ethylbenzene	ND		0.046	mg/Kg		05/06/26 11:26	05/07/26 16:35	1
Toluene	ND		0.046	mg/Kg		05/06/26 11:26	05/07/26 16:35	1
Xylenes, Total	ND		0.046	mg/Kg		05/06/26 11:26	05/07/26 16:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			05/06/26 11:26	05/07/26 16:35	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/08/26 09:30	05/11/26 13:50	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/08/26 09:30	05/11/26 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			05/08/26 09:30	05/11/26 13:50	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		50	mg/Kg		05/06/26 15:45	05/07/26 18:59	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: WS25-09 1'

Lab Sample ID: 885-48761-10

Date Collected: 05/01/26 09:30

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/06/26 11:26	05/07/26 16:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			05/06/26 11:26	05/07/26 16:57	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/26 11:26	05/07/26 16:57	1
Ethylbenzene	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 16:57	1
Toluene	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 16:57	1
Xylenes, Total	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 16:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			05/06/26 11:26	05/07/26 16:57	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		05/08/26 09:30	05/11/26 14:14	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/08/26 09:30	05/11/26 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			05/08/26 09:30	05/11/26 14:14	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3500		50	mg/Kg		05/06/26 15:45	05/07/26 19:13	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: WS25-09 2'

Lab Sample ID: 885-48761-11

Date Collected: 05/01/26 09:40

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6	mg/Kg		05/06/26 11:26	05/07/26 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			05/06/26 11:26	05/07/26 17:41	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/06/26 11:26	05/07/26 17:41	1
Ethylbenzene	ND		0.046	mg/Kg		05/06/26 11:26	05/07/26 17:41	1
Toluene	ND		0.046	mg/Kg		05/06/26 11:26	05/07/26 17:41	1
Xylenes, Total	ND		0.046	mg/Kg		05/06/26 11:26	05/07/26 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			05/06/26 11:26	05/07/26 17:41	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/08/26 09:30	05/11/26 14:26	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/08/26 09:30	05/11/26 14:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			05/08/26 09:30	05/11/26 14:26	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		50	mg/Kg		05/06/26 15:45	05/07/26 19:27	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: WS25-09 3'

Lab Sample ID: 885-48761-12

Date Collected: 05/01/26 09:50

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/06/26 11:26	05/07/26 18:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/06/26 11:26	05/07/26 18:03	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/26 11:26	05/07/26 18:03	1
Ethylbenzene	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 18:03	1
Toluene	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 18:03	1
Xylenes, Total	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 18:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			05/06/26 11:26	05/07/26 18:03	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		05/08/26 09:30	05/11/26 14:39	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/08/26 09:30	05/11/26 14:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			05/08/26 09:30	05/11/26 14:39	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5100		50	mg/Kg		05/06/26 15:45	05/07/26 19:40	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: WS25-09 4'

Lab Sample ID: 885-48761-13

Date Collected: 05/01/26 10:00

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/06/26 11:26	05/07/26 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			05/06/26 11:26	05/07/26 18:25	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 11:26	05/07/26 18:25	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 18:25	1
Toluene	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 18:25	1
Xylenes, Total	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			05/06/26 11:26	05/07/26 18:25	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		05/08/26 09:30	05/11/26 14:51	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/08/26 09:30	05/11/26 14:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			05/08/26 09:30	05/11/26 14:51	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9800		99	mg/Kg		05/06/26 15:45	05/08/26 13:08	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: WS25-09 5'

Lab Sample ID: 885-48761-14

Date Collected: 05/01/26 10:10

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/06/26 11:26	05/07/26 18:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			05/06/26 11:26	05/07/26 18:47	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/26 11:26	05/07/26 18:47	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 18:47	1
Toluene	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 18:47	1
Xylenes, Total	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 18:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/06/26 11:26	05/07/26 18:47	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		05/08/26 09:30	05/11/26 15:04	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/08/26 09:30	05/11/26 15:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			05/08/26 09:30	05/11/26 15:04	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9100		99	mg/Kg		05/06/26 15:45	05/08/26 13:50	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: WS25-09 6'

Lab Sample ID: 885-48761-15

Date Collected: 05/01/26 10:20

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/06/26 11:26	05/07/26 19:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			05/06/26 11:26	05/07/26 19:09	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 11:26	05/07/26 19:09	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 19:09	1
Toluene	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 19:09	1
Xylenes, Total	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 19:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/06/26 11:26	05/07/26 19:09	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/08/26 09:30	05/11/26 15:16	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/08/26 09:30	05/11/26 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			05/08/26 09:30	05/11/26 15:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7800		49	mg/Kg		05/06/26 15:45	05/07/26 20:49	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: WS25-09 7'

Lab Sample ID: 885-48761-16

Date Collected: 05/01/26 10:30

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		05/06/26 11:26	05/07/26 19:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			05/06/26 11:26	05/07/26 19:31	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 11:26	05/07/26 19:31	1
Ethylbenzene	ND		0.047	mg/Kg		05/06/26 11:26	05/07/26 19:31	1
Toluene	ND		0.047	mg/Kg		05/06/26 11:26	05/07/26 19:31	1
Xylenes, Total	ND		0.047	mg/Kg		05/06/26 11:26	05/07/26 19:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/06/26 11:26	05/07/26 19:31	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/08/26 09:30	05/11/26 15:28	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/08/26 09:30	05/11/26 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			05/08/26 09:30	05/11/26 15:28	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6900		50	mg/Kg		05/06/26 15:45	05/07/26 21:02	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: WS25-09 8'

Lab Sample ID: 885-48761-17

Date Collected: 05/01/26 10:40

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/06/26 11:26	05/07/26 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			05/06/26 11:26	05/07/26 19:53	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 11:26	05/07/26 19:53	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 19:53	1
Toluene	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 19:53	1
Xylenes, Total	ND		0.049	mg/Kg		05/06/26 11:26	05/07/26 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/06/26 11:26	05/07/26 19:53	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/08/26 09:30	05/11/26 15:41	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/08/26 09:30	05/11/26 15:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			05/08/26 09:30	05/11/26 15:41	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		51	mg/Kg		05/06/26 15:45	05/07/26 21:16	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: WS25-09 9'

Lab Sample ID: 885-48761-18

Date Collected: 05/01/26 10:50

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	12		4.7	mg/Kg		05/06/26 11:26	05/07/26 20:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130			05/06/26 11:26	05/07/26 20:15	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 11:26	05/07/26 20:15	1
Ethylbenzene	ND		0.047	mg/Kg		05/06/26 11:26	05/07/26 20:15	1
Toluene	ND		0.047	mg/Kg		05/06/26 11:26	05/07/26 20:15	1
Xylenes, Total	ND		0.047	mg/Kg		05/06/26 11:26	05/07/26 20:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			05/06/26 11:26	05/07/26 20:15	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/08/26 09:30	05/11/26 15:53	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/08/26 09:30	05/11/26 15:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			05/08/26 09:30	05/11/26 15:53	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		50	mg/Kg		05/06/26 15:45	05/07/26 21:30	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: WS25-09 10'

Lab Sample ID: 885-48761-19

Date Collected: 05/01/26 13:00

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6	mg/Kg		05/06/26 11:26	05/07/26 20:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			05/06/26 11:26	05/07/26 20:37	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/06/26 11:26	05/07/26 20:37	1
Ethylbenzene	ND		0.046	mg/Kg		05/06/26 11:26	05/07/26 20:37	1
Toluene	ND		0.046	mg/Kg		05/06/26 11:26	05/07/26 20:37	1
Xylenes, Total	ND		0.046	mg/Kg		05/06/26 11:26	05/07/26 20:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/06/26 11:26	05/07/26 20:37	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		05/08/26 09:30	05/11/26 16:05	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/08/26 09:30	05/11/26 16:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/08/26 09:30	05/11/26 16:05	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		50	mg/Kg		05/06/26 15:45	05/07/26 21:43	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-11 1'

Lab Sample ID: 885-48761-20

Date Collected: 05/01/26 13:10

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/06/26 11:26	05/07/26 20:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			05/06/26 11:26	05/07/26 20:59	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 11:26	05/07/26 20:59	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 20:59	1
Toluene	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 20:59	1
Xylenes, Total	ND		0.048	mg/Kg		05/06/26 11:26	05/07/26 20:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/06/26 11:26	05/07/26 20:59	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	240		9.6	mg/Kg		05/08/26 09:30	05/12/26 12:21	1
Motor Oil Range Organics [C28-C40]	290		48	mg/Kg		05/08/26 09:30	05/12/26 12:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			05/08/26 09:30	05/12/26 12:21	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		51	mg/Kg		05/06/26 15:45	05/07/26 21:57	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-11 2'

Lab Sample ID: 885-48761-21

Date Collected: 05/01/26 13:20

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/06/26 13:36	05/07/26 23:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			05/06/26 13:36	05/07/26 23:10	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 13:36	05/07/26 23:10	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/26 13:36	05/07/26 23:10	1
Toluene	ND		0.048	mg/Kg		05/06/26 13:36	05/07/26 23:10	1
Xylenes, Total	ND		0.048	mg/Kg		05/06/26 13:36	05/07/26 23:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			05/06/26 13:36	05/07/26 23:10	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	55		9.0	mg/Kg		05/08/26 09:45	05/11/26 14:18	1
Motor Oil Range Organics [C28-C40]	170		45	mg/Kg		05/08/26 09:45	05/11/26 14:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			05/08/26 09:45	05/11/26 14:18	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		50	mg/Kg		05/06/26 15:45	05/07/26 22:11	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-11 3'

Lab Sample ID: 885-48761-22

Date Collected: 05/01/26 13:30

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/06/26 13:36	05/08/26 00:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			05/06/26 13:36	05/08/26 00:16	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 13:36	05/08/26 00:16	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/26 13:36	05/08/26 00:16	1
Toluene	ND		0.048	mg/Kg		05/06/26 13:36	05/08/26 00:16	1
Xylenes, Total	ND		0.048	mg/Kg		05/06/26 13:36	05/08/26 00:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/06/26 13:36	05/08/26 00:16	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/08/26 09:45	05/09/26 00:34	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/08/26 09:45	05/09/26 00:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			05/08/26 09:45	05/09/26 00:34	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		50	mg/Kg		05/06/26 15:45	05/07/26 22:24	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-11 4'

Lab Sample ID: 885-48761-23

Date Collected: 05/01/26 13:40

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/06/26 13:36	05/08/26 01:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			05/06/26 13:36	05/08/26 01:22	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 13:36	05/08/26 01:22	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/26 13:36	05/08/26 01:22	1
Toluene	ND		0.048	mg/Kg		05/06/26 13:36	05/08/26 01:22	1
Xylenes, Total	ND		0.048	mg/Kg		05/06/26 13:36	05/08/26 01:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/06/26 13:36	05/08/26 01:22	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		05/08/26 09:45	05/09/26 00:46	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/08/26 09:45	05/09/26 00:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	84		62 - 134			05/08/26 09:45	05/09/26 00:46	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		49	mg/Kg		05/06/26 15:45	05/07/26 22:38	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-10 1'

Lab Sample ID: 885-48761-24

Date Collected: 05/02/26 08:00

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		05/06/26 13:36	05/08/26 01:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			05/06/26 13:36	05/08/26 01:44	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/06/26 13:36	05/08/26 01:44	1
Ethylbenzene	ND		0.047	mg/Kg		05/06/26 13:36	05/08/26 01:44	1
Toluene	ND		0.047	mg/Kg		05/06/26 13:36	05/08/26 01:44	1
Xylenes, Total	ND		0.047	mg/Kg		05/06/26 13:36	05/08/26 01:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			05/06/26 13:36	05/08/26 01:44	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	330		9.1	mg/Kg		05/08/26 09:45	05/11/26 15:01	1
Motor Oil Range Organics [C28-C40]	190		46	mg/Kg		05/08/26 09:45	05/11/26 15:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			05/08/26 09:45	05/11/26 15:01	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2600		51	mg/Kg		05/06/26 15:45	05/07/26 23:19	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-10 2'

Lab Sample ID: 885-48761-25

Date Collected: 05/02/26 08:10

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	10		4.6	mg/Kg		05/06/26 13:36	05/08/26 02:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			05/06/26 13:36	05/08/26 02:06	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/06/26 13:36	05/08/26 02:06	1
Ethylbenzene	ND		0.046	mg/Kg		05/06/26 13:36	05/08/26 02:06	1
Toluene	ND		0.046	mg/Kg		05/06/26 13:36	05/08/26 02:06	1
Xylenes, Total	ND		0.046	mg/Kg		05/06/26 13:36	05/08/26 02:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			05/06/26 13:36	05/08/26 02:06	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2600		95	mg/Kg		05/08/26 09:45	05/12/26 12:53	10
Motor Oil Range Organics [C28-C40]	1700		470	mg/Kg		05/08/26 09:45	05/12/26 12:53	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			05/08/26 09:45	05/12/26 12:53	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5900		51	mg/Kg		05/06/26 15:45	05/07/26 23:33	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-10 3'

Lab Sample ID: 885-48761-26

Date Collected: 05/02/26 08:20

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6	mg/Kg		05/06/26 13:36	05/08/26 02:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			05/06/26 13:36	05/08/26 02:28	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/06/26 13:36	05/08/26 02:28	1
Ethylbenzene	ND		0.046	mg/Kg		05/06/26 13:36	05/08/26 02:28	1
Toluene	ND		0.046	mg/Kg		05/06/26 13:36	05/08/26 02:28	1
Xylenes, Total	ND		0.046	mg/Kg		05/06/26 13:36	05/08/26 02:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/06/26 13:36	05/08/26 02:28	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		05/08/26 09:45	05/09/26 01:23	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/08/26 09:45	05/09/26 01:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			05/08/26 09:45	05/09/26 01:23	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3400		51	mg/Kg		05/07/26 10:35	05/08/26 15:29	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-10 4'

Lab Sample ID: 885-48761-27

Date Collected: 05/02/26 08:30

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		05/06/26 13:36	05/08/26 02:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			05/06/26 13:36	05/08/26 02:50	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 13:36	05/08/26 02:50	1
Ethylbenzene	ND		0.047	mg/Kg		05/06/26 13:36	05/08/26 02:50	1
Toluene	ND		0.047	mg/Kg		05/06/26 13:36	05/08/26 02:50	1
Xylenes, Total	ND		0.047	mg/Kg		05/06/26 13:36	05/08/26 02:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/06/26 13:36	05/08/26 02:50	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7	mg/Kg		05/08/26 09:45	05/09/26 01:35	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		05/08/26 09:45	05/09/26 01:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			05/08/26 09:45	05/09/26 01:35	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		51	mg/Kg		05/07/26 10:35	05/08/26 15:43	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-10 5'

Lab Sample ID: 885-48761-28

Date Collected: 05/02/26 08:40

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		05/06/26 13:36	05/08/26 03:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			05/06/26 13:36	05/08/26 03:12	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 13:36	05/08/26 03:12	1
Ethylbenzene	ND		0.047	mg/Kg		05/06/26 13:36	05/08/26 03:12	1
Toluene	ND		0.047	mg/Kg		05/06/26 13:36	05/08/26 03:12	1
Xylenes, Total	ND		0.047	mg/Kg		05/06/26 13:36	05/08/26 03:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/06/26 13:36	05/08/26 03:12	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/08/26 09:45	05/09/26 01:47	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/08/26 09:45	05/09/26 01:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			05/08/26 09:45	05/09/26 01:47	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	910		51	mg/Kg		05/07/26 10:35	05/08/26 15:57	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-10 6'

Lab Sample ID: 885-48761-29

Date Collected: 05/02/26 08:50

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/06/26 13:36	05/08/26 03:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/06/26 13:36	05/08/26 03:34	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 13:36	05/08/26 03:34	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/26 13:36	05/08/26 03:34	1
Toluene	ND		0.048	mg/Kg		05/06/26 13:36	05/08/26 03:34	1
Xylenes, Total	ND		0.048	mg/Kg		05/06/26 13:36	05/08/26 03:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			05/06/26 13:36	05/08/26 03:34	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/08/26 09:45	05/09/26 01:59	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/08/26 09:45	05/09/26 01:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	83		62 - 134			05/08/26 09:45	05/09/26 01:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		49	mg/Kg		05/07/26 10:35	05/08/26 16:10	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-10 7'

Lab Sample ID: 885-48761-30

Date Collected: 05/02/26 09:00

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/06/26 13:36	05/08/26 03:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/06/26 13:36	05/08/26 03:56	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/26 13:36	05/08/26 03:56	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/26 13:36	05/08/26 03:56	1
Toluene	ND		0.049	mg/Kg		05/06/26 13:36	05/08/26 03:56	1
Xylenes, Total	ND		0.049	mg/Kg		05/06/26 13:36	05/08/26 03:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/06/26 13:36	05/08/26 03:56	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/08/26 09:45	05/09/26 02:23	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/08/26 09:45	05/09/26 02:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			05/08/26 09:45	05/09/26 02:23	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		51	mg/Kg		05/07/26 10:35	05/08/26 16:24	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-10 8'

Lab Sample ID: 885-48761-31

Date Collected: 05/02/26 09:10

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/06/26 13:36	05/08/26 10:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			05/06/26 13:36	05/08/26 10:45	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 13:36	05/08/26 10:45	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/26 13:36	05/08/26 10:45	1
Toluene	ND		0.049	mg/Kg		05/06/26 13:36	05/08/26 10:45	1
Xylenes, Total	ND		0.049	mg/Kg		05/06/26 13:36	05/08/26 10:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/06/26 13:36	05/08/26 10:45	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		05/08/26 09:45	05/09/26 02:36	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		05/08/26 09:45	05/09/26 02:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	86		62 - 134			05/08/26 09:45	05/09/26 02:36	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		50	mg/Kg		05/07/26 10:35	05/08/26 17:05	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-10 9'

Lab Sample ID: 885-48761-32

Date Collected: 05/02/26 09:20

Matrix: Solid

Date Received: 05/06/26 07:55

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/06/26 13:36	05/08/26 11:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/06/26 13:36	05/08/26 11:07	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/26 13:36	05/08/26 11:07	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/26 13:36	05/08/26 11:07	1
Toluene	ND		0.049	mg/Kg		05/06/26 13:36	05/08/26 11:07	1
Xylenes, Total	ND		0.049	mg/Kg		05/06/26 13:36	05/08/26 11:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/06/26 13:36	05/08/26 11:07	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6	mg/Kg		05/08/26 09:45	05/09/26 02:48	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		05/08/26 09:45	05/09/26 02:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			05/08/26 09:45	05/09/26 02:48	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		50	mg/Kg		05/07/26 10:35	05/08/26 17:19	10

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-48137/1-A

Matrix: Solid

Analysis Batch: 48215

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48137

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/06/26 11:26	05/07/26 11:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			05/06/26 11:26	05/07/26 11:49	1

Lab Sample ID: LCS 885-48137/2-A

Matrix: Solid

Analysis Batch: 48215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	24.3		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	214		70 - 130				

Lab Sample ID: 885-48761-1 MS

Matrix: Solid

Analysis Batch: 48215

Client Sample ID: BS25-12 1'

Prep Type: Total/NA

Prep Batch: 48137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		23.0	20.5		mg/Kg		89	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	208		70 - 130						

Lab Sample ID: 885-48761-1 MSD

Matrix: Solid

Analysis Batch: 48215

Client Sample ID: BS25-12 1'

Prep Type: Total/NA

Prep Batch: 48137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		23.1	23.0		mg/Kg		99	70 - 130	12	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	219		70 - 130								

Lab Sample ID: MB 885-48149/1-A

Matrix: Solid

Analysis Batch: 48277

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48149

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/06/26 13:36	05/07/26 22:48	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 885-48149/1-A

Matrix: Solid

Analysis Batch: 48277

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48149

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	101		70 - 130	05/06/26 13:36	05/07/26 22:48	1			

Lab Sample ID: LCS 885-48149/2-A

Matrix: Solid

Analysis Batch: 48277

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48149

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			25.0	21.4		mg/Kg		86	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	205		70 - 130							

Lab Sample ID: 885-48761-21 MS

Matrix: Solid

Analysis Batch: 48277

Client Sample ID: BS25-11 2'

Prep Type: Total/NA

Prep Batch: 48149

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	ND		24.0	22.8		mg/Kg		95	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	216		70 - 130							

Lab Sample ID: 885-48761-21 MSD

Matrix: Solid

Analysis Batch: 48277

Client Sample ID: BS25-11 2'

Prep Type: Total/NA

Prep Batch: 48149

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.2	21.2		mg/Kg		87	70 - 130	7	20
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	209		70 - 130								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-48137/1-A

Matrix: Solid

Analysis Batch: 48216

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48137

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		05/06/26 11:26	05/07/26 11:49	1	
Ethylbenzene	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 11:49	1	
Toluene	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 11:49	1	
Xylenes, Total	ND		0.050	mg/Kg		05/06/26 11:26	05/07/26 11:49	1	

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-48137/1-A

Matrix: Solid

Analysis Batch: 48216

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48137

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	91		70 - 130	05/06/26 11:26	05/07/26 11:49	1			

Lab Sample ID: LCS 885-48137/3-A

Matrix: Solid

Analysis Batch: 48216

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48137

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	1.00	0.980		mg/Kg		98	70 - 130		
Ethylbenzene	1.00	0.985		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene	2.00	1.98		mg/Kg		99	70 - 130		
o-Xylene	1.00	0.983		mg/Kg		98	70 - 130		
Toluene	1.00	0.970		mg/Kg		97	70 - 130		

	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		70 - 130						

Lab Sample ID: 885-48761-2 MS

Matrix: Solid

Analysis Batch: 48216

Client Sample ID: BS25-12 2'

Prep Type: Total/NA

Prep Batch: 48137

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	ND		0.970	0.937		mg/Kg		97	70 - 130
Ethylbenzene	ND		0.970	0.959		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	ND		1.94	1.93		mg/Kg		99	70 - 130
o-Xylene	ND		0.970	0.951		mg/Kg		98	70 - 130
Toluene	ND		0.970	0.931		mg/Kg		96	70 - 130

	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		70 - 130						

Lab Sample ID: 885-48761-2 MSD

Matrix: Solid

Analysis Batch: 48216

Client Sample ID: BS25-12 2'

Prep Type: Total/NA

Prep Batch: 48137

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.975	0.982		mg/Kg		101	70 - 130	5	20
Ethylbenzene	ND		0.975	1.03		mg/Kg		105	70 - 130	7	20
m-Xylene & p-Xylene	ND		1.95	2.05		mg/Kg		105	70 - 130	6	20
o-Xylene	ND		0.975	1.00		mg/Kg		103	70 - 130	5	20
Toluene	ND		0.975	0.986		mg/Kg		101	70 - 130	6	20

	MSD	MSD							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	91		70 - 130						

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-48149/1-A

Matrix: Solid

Analysis Batch: 48276

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48149

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/26 13:36	05/07/26 22:48	1
Ethylbenzene	ND		0.050	mg/Kg		05/06/26 13:36	05/07/26 22:48	1
Toluene	ND		0.050	mg/Kg		05/06/26 13:36	05/07/26 22:48	1
Xylenes, Total	ND		0.050	mg/Kg		05/06/26 13:36	05/07/26 22:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	05/06/26 13:36	05/07/26 22:48	1

Lab Sample ID: LCS 885-48149/3-A

Matrix: Solid

Analysis Batch: 48276

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.942		mg/Kg		94	70 - 130
Ethylbenzene	1.00	0.951		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	2.00	1.90		mg/Kg		95	70 - 130
o-Xylene	1.00	0.958		mg/Kg		96	70 - 130
Toluene	1.00	0.925		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 885-48761-22 MS

Matrix: Solid

Analysis Batch: 48276

Client Sample ID: BS25-11 3'

Prep Type: Total/NA

Prep Batch: 48149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.953	0.986		mg/Kg		103	70 - 130
Ethylbenzene	ND		0.953	1.02		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	ND		1.91	2.04		mg/Kg		107	70 - 130
o-Xylene	ND		0.953	1.01		mg/Kg		106	70 - 130
Toluene	ND		0.953	0.977		mg/Kg		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 885-48761-22 MSD

Matrix: Solid

Analysis Batch: 48276

Client Sample ID: BS25-11 3'

Prep Type: Total/NA

Prep Batch: 48149

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.952	0.981		mg/Kg		103	70 - 130	1	20
Ethylbenzene	ND		0.952	1.00		mg/Kg		105	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.90	2.05		mg/Kg		107	70 - 130	0	20
o-Xylene	ND		0.952	1.01		mg/Kg		106	70 - 130	0	20
Toluene	ND		0.952	0.975		mg/Kg		102	70 - 130	0	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-48761-22 MSD
Matrix: Solid
Analysis Batch: 48276

Client Sample ID: BS25-11 3'
Prep Type: Total/NA
Prep Batch: 48149

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-48285/1-A
Matrix: Solid
Analysis Batch: 48384

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48285

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/08/26 09:30	05/11/26 11:49	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/08/26 09:30	05/11/26 11:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			05/08/26 09:30	05/11/26 11:49	1

Lab Sample ID: LCS 885-48285/2-A
Matrix: Solid
Analysis Batch: 48384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	47.1		mg/Kg		94	58 - 144
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	86		62 - 134				

Lab Sample ID: 885-48761-20 MS
Matrix: Solid
Analysis Batch: 48452

Client Sample ID: BS25-11 1'
Prep Type: Total/NA
Prep Batch: 48285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	240		46.2	287	4	mg/Kg		107	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	107		62 - 134						

Lab Sample ID: 885-48761-20 MSD
Matrix: Solid
Analysis Batch: 48452

Client Sample ID: BS25-11 1'
Prep Type: Total/NA
Prep Batch: 48285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	240		47.0	364	4	mg/Kg		268	44 - 136	24	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	138	S1+	62 - 134								

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-48288/1-A

Matrix: Solid

Analysis Batch: 48281

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48288

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/08/26 09:44	05/08/26 23:57	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/08/26 09:44	05/08/26 23:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			05/08/26 09:44	05/08/26 23:57	1

Lab Sample ID: LCS 885-48288/2-A

Matrix: Solid

Analysis Batch: 48281

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Diesel Range Organics [C10-C28]	50.0	43.5		mg/Kg		87	58 - 144	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Di-n-octyl phthalate (Surr)	79		62 - 134					

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-48163/1-A

Matrix: Solid

Analysis Batch: 48196

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48163

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg		05/06/26 14:46	05/07/26 09:40	1

Lab Sample ID: LCS 885-48163/2-A

Matrix: Solid

Analysis Batch: 48196

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	50.8	50.9		mg/Kg		100	90 - 110	

Lab Sample ID: MB 885-48166/1-A

Matrix: Solid

Analysis Batch: 48196

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48166

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg		05/06/26 15:45	05/07/26 16:29	1

Lab Sample ID: LCS 885-48166/2-A

Matrix: Solid

Analysis Batch: 48196

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	49.8	52.4		mg/Kg		105	90 - 110	

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-48761-6 MSD

Matrix: Solid

Analysis Batch: 48196

Client Sample ID: BS25-12 6'

Prep Type: Total/NA

Prep Batch: 48166

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4200		50.3	4220	4	mg/Kg		107	50 - 150	1	20

Lab Sample ID: MB 885-48214/1-A

Matrix: Solid

Analysis Batch: 48261

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48214

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg		05/07/26 10:35	05/08/26 11:37	1

Lab Sample ID: LCS 885-48214/2-A

Matrix: Solid

Analysis Batch: 48261

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.2	52.6		mg/Kg		105	90 - 110

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QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

GC VOA

Prep Batch: 48137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-1	BS25-12 1'	Total/NA	Solid	5030C	
885-48761-2	BS25-12 2'	Total/NA	Solid	5030C	
885-48761-3	BS25-12 3'	Total/NA	Solid	5030C	
885-48761-4	BS25-12 4'	Total/NA	Solid	5030C	
885-48761-5	BS25-12 5'	Total/NA	Solid	5030C	
885-48761-6	BS25-12 6'	Total/NA	Solid	5030C	
885-48761-7	BS25-12 7'	Total/NA	Solid	5030C	
885-48761-8	BS25-12 8'	Total/NA	Solid	5030C	
885-48761-9	BS25-12 9'	Total/NA	Solid	5030C	
885-48761-10	WS25-09 1'	Total/NA	Solid	5030C	
885-48761-11	WS25-09 2'	Total/NA	Solid	5030C	
885-48761-12	WS25-09 3'	Total/NA	Solid	5030C	
885-48761-13	WS25-09 4'	Total/NA	Solid	5030C	
885-48761-14	WS25-09 5'	Total/NA	Solid	5030C	
885-48761-15	WS25-09 6'	Total/NA	Solid	5030C	
885-48761-16	WS25-09 7'	Total/NA	Solid	5030C	
885-48761-17	WS25-09 8'	Total/NA	Solid	5030C	
885-48761-18	WS25-09 9'	Total/NA	Solid	5030C	
885-48761-19	WS25-09 10'	Total/NA	Solid	5030C	
885-48761-20	BS25-11 1'	Total/NA	Solid	5030C	
MB 885-48137/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-48137/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-48137/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-48761-1 MS	BS25-12 1'	Total/NA	Solid	5030C	
885-48761-1 MSD	BS25-12 1'	Total/NA	Solid	5030C	
885-48761-2 MS	BS25-12 2'	Total/NA	Solid	5030C	
885-48761-2 MSD	BS25-12 2'	Total/NA	Solid	5030C	

Prep Batch: 48149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-21	BS25-11 2'	Total/NA	Solid	5030C	
885-48761-22	BS25-11 3'	Total/NA	Solid	5030C	
885-48761-23	BS25-11 4'	Total/NA	Solid	5030C	
885-48761-24	BS25-10 1'	Total/NA	Solid	5030C	
885-48761-25	BS25-10 2'	Total/NA	Solid	5030C	
885-48761-26	BS25-10 3'	Total/NA	Solid	5030C	
885-48761-27	BS25-10 4'	Total/NA	Solid	5030C	
885-48761-28	BS25-10 5'	Total/NA	Solid	5030C	
885-48761-29	BS25-10 6'	Total/NA	Solid	5030C	
885-48761-30	BS25-10 7'	Total/NA	Solid	5030C	
885-48761-31	BS25-10 8'	Total/NA	Solid	5030C	
885-48761-32	BS25-10 9'	Total/NA	Solid	5030C	
MB 885-48149/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-48149/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-48149/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-48761-21 MS	BS25-11 2'	Total/NA	Solid	5030C	
885-48761-21 MSD	BS25-11 2'	Total/NA	Solid	5030C	
885-48761-22 MS	BS25-11 3'	Total/NA	Solid	5030C	
885-48761-22 MSD	BS25-11 3'	Total/NA	Solid	5030C	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

GC VOA

Analysis Batch: 48215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-1	BS25-12 1'	Total/NA	Solid	8015M/D	48137
885-48761-2	BS25-12 2'	Total/NA	Solid	8015M/D	48137
885-48761-3	BS25-12 3'	Total/NA	Solid	8015M/D	48137
885-48761-4	BS25-12 4'	Total/NA	Solid	8015M/D	48137
885-48761-5	BS25-12 5'	Total/NA	Solid	8015M/D	48137
885-48761-6	BS25-12 6'	Total/NA	Solid	8015M/D	48137
885-48761-7	BS25-12 7'	Total/NA	Solid	8015M/D	48137
885-48761-8	BS25-12 8'	Total/NA	Solid	8015M/D	48137
885-48761-9	BS25-12 9'	Total/NA	Solid	8015M/D	48137
885-48761-10	WS25-09 1'	Total/NA	Solid	8015M/D	48137
885-48761-11	WS25-09 2'	Total/NA	Solid	8015M/D	48137
885-48761-12	WS25-09 3'	Total/NA	Solid	8015M/D	48137
885-48761-13	WS25-09 4'	Total/NA	Solid	8015M/D	48137
885-48761-14	WS25-09 5'	Total/NA	Solid	8015M/D	48137
885-48761-15	WS25-09 6'	Total/NA	Solid	8015M/D	48137
885-48761-16	WS25-09 7'	Total/NA	Solid	8015M/D	48137
885-48761-17	WS25-09 8'	Total/NA	Solid	8015M/D	48137
885-48761-18	WS25-09 9'	Total/NA	Solid	8015M/D	48137
885-48761-19	WS25-09 10'	Total/NA	Solid	8015M/D	48137
885-48761-20	BS25-11 1'	Total/NA	Solid	8015M/D	48137
MB 885-48137/1-A	Method Blank	Total/NA	Solid	8015M/D	48137
LCS 885-48137/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	48137
885-48761-1 MS	BS25-12 1'	Total/NA	Solid	8015M/D	48137
885-48761-1 MSD	BS25-12 1'	Total/NA	Solid	8015M/D	48137

Analysis Batch: 48216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-1	BS25-12 1'	Total/NA	Solid	8021B	48137
885-48761-2	BS25-12 2'	Total/NA	Solid	8021B	48137
885-48761-3	BS25-12 3'	Total/NA	Solid	8021B	48137
885-48761-4	BS25-12 4'	Total/NA	Solid	8021B	48137
885-48761-5	BS25-12 5'	Total/NA	Solid	8021B	48137
885-48761-6	BS25-12 6'	Total/NA	Solid	8021B	48137
885-48761-7	BS25-12 7'	Total/NA	Solid	8021B	48137
885-48761-8	BS25-12 8'	Total/NA	Solid	8021B	48137
885-48761-9	BS25-12 9'	Total/NA	Solid	8021B	48137
885-48761-10	WS25-09 1'	Total/NA	Solid	8021B	48137
885-48761-11	WS25-09 2'	Total/NA	Solid	8021B	48137
885-48761-12	WS25-09 3'	Total/NA	Solid	8021B	48137
885-48761-13	WS25-09 4'	Total/NA	Solid	8021B	48137
885-48761-14	WS25-09 5'	Total/NA	Solid	8021B	48137
885-48761-15	WS25-09 6'	Total/NA	Solid	8021B	48137
885-48761-16	WS25-09 7'	Total/NA	Solid	8021B	48137
885-48761-17	WS25-09 8'	Total/NA	Solid	8021B	48137
885-48761-18	WS25-09 9'	Total/NA	Solid	8021B	48137
885-48761-19	WS25-09 10'	Total/NA	Solid	8021B	48137
885-48761-20	BS25-11 1'	Total/NA	Solid	8021B	48137
MB 885-48137/1-A	Method Blank	Total/NA	Solid	8021B	48137
LCS 885-48137/3-A	Lab Control Sample	Total/NA	Solid	8021B	48137
885-48761-2 MS	BS25-12 2'	Total/NA	Solid	8021B	48137
885-48761-2 MSD	BS25-12 2'	Total/NA	Solid	8021B	48137

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

GC VOA

Analysis Batch: 48276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-21	BS25-11 2'	Total/NA	Solid	8021B	48149
885-48761-22	BS25-11 3'	Total/NA	Solid	8021B	48149
885-48761-23	BS25-11 4'	Total/NA	Solid	8021B	48149
885-48761-24	BS25-10 1'	Total/NA	Solid	8021B	48149
885-48761-25	BS25-10 2'	Total/NA	Solid	8021B	48149
885-48761-26	BS25-10 3'	Total/NA	Solid	8021B	48149
885-48761-27	BS25-10 4'	Total/NA	Solid	8021B	48149
885-48761-28	BS25-10 5'	Total/NA	Solid	8021B	48149
885-48761-29	BS25-10 6'	Total/NA	Solid	8021B	48149
885-48761-30	BS25-10 7'	Total/NA	Solid	8021B	48149
MB 885-48149/1-A	Method Blank	Total/NA	Solid	8021B	48149
LCS 885-48149/3-A	Lab Control Sample	Total/NA	Solid	8021B	48149
885-48761-22 MS	BS25-11 3'	Total/NA	Solid	8021B	48149
885-48761-22 MSD	BS25-11 3'	Total/NA	Solid	8021B	48149

Analysis Batch: 48277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-21	BS25-11 2'	Total/NA	Solid	8015M/D	48149
885-48761-22	BS25-11 3'	Total/NA	Solid	8015M/D	48149
885-48761-23	BS25-11 4'	Total/NA	Solid	8015M/D	48149
885-48761-24	BS25-10 1'	Total/NA	Solid	8015M/D	48149
885-48761-25	BS25-10 2'	Total/NA	Solid	8015M/D	48149
885-48761-26	BS25-10 3'	Total/NA	Solid	8015M/D	48149
885-48761-27	BS25-10 4'	Total/NA	Solid	8015M/D	48149
885-48761-28	BS25-10 5'	Total/NA	Solid	8015M/D	48149
885-48761-29	BS25-10 6'	Total/NA	Solid	8015M/D	48149
885-48761-30	BS25-10 7'	Total/NA	Solid	8015M/D	48149
MB 885-48149/1-A	Method Blank	Total/NA	Solid	8015M/D	48149
LCS 885-48149/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	48149
885-48761-21 MS	BS25-11 2'	Total/NA	Solid	8015M/D	48149
885-48761-21 MSD	BS25-11 2'	Total/NA	Solid	8015M/D	48149

Analysis Batch: 48286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-31	BS25-10 8'	Total/NA	Solid	8015M/D	48149
885-48761-32	BS25-10 9'	Total/NA	Solid	8015M/D	48149

Analysis Batch: 48287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-31	BS25-10 8'	Total/NA	Solid	8021B	48149
885-48761-32	BS25-10 9'	Total/NA	Solid	8021B	48149

GC Semi VOA

Analysis Batch: 48281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-22	BS25-11 3'	Total/NA	Solid	8015M/D	48288
885-48761-23	BS25-11 4'	Total/NA	Solid	8015M/D	48288
885-48761-26	BS25-10 3'	Total/NA	Solid	8015M/D	48288
885-48761-27	BS25-10 4'	Total/NA	Solid	8015M/D	48288
885-48761-28	BS25-10 5'	Total/NA	Solid	8015M/D	48288

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

GC Semi VOA (Continued)

Analysis Batch: 48281 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-29	BS25-10 6'	Total/NA	Solid	8015M/D	48288
885-48761-30	BS25-10 7'	Total/NA	Solid	8015M/D	48288
885-48761-31	BS25-10 8'	Total/NA	Solid	8015M/D	48288
885-48761-32	BS25-10 9'	Total/NA	Solid	8015M/D	48288
MB 885-48288/1-A	Method Blank	Total/NA	Solid	8015M/D	48288
LCS 885-48288/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	48288

Prep Batch: 48285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-1	BS25-12 1'	Total/NA	Solid	SHAKE	
885-48761-2	BS25-12 2'	Total/NA	Solid	SHAKE	
885-48761-3	BS25-12 3'	Total/NA	Solid	SHAKE	
885-48761-4	BS25-12 4'	Total/NA	Solid	SHAKE	
885-48761-5	BS25-12 5'	Total/NA	Solid	SHAKE	
885-48761-6	BS25-12 6'	Total/NA	Solid	SHAKE	
885-48761-7	BS25-12 7'	Total/NA	Solid	SHAKE	
885-48761-8	BS25-12 8'	Total/NA	Solid	SHAKE	
885-48761-9	BS25-12 9'	Total/NA	Solid	SHAKE	
885-48761-10	WS25-09 1'	Total/NA	Solid	SHAKE	
885-48761-11	WS25-09 2'	Total/NA	Solid	SHAKE	
885-48761-12	WS25-09 3'	Total/NA	Solid	SHAKE	
885-48761-13	WS25-09 4'	Total/NA	Solid	SHAKE	
885-48761-14	WS25-09 5'	Total/NA	Solid	SHAKE	
885-48761-15	WS25-09 6'	Total/NA	Solid	SHAKE	
885-48761-16	WS25-09 7'	Total/NA	Solid	SHAKE	
885-48761-17	WS25-09 8'	Total/NA	Solid	SHAKE	
885-48761-18	WS25-09 9'	Total/NA	Solid	SHAKE	
885-48761-19	WS25-09 10'	Total/NA	Solid	SHAKE	
885-48761-20	BS25-11 1'	Total/NA	Solid	SHAKE	
MB 885-48285/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-48285/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-48761-20 MS	BS25-11 1'	Total/NA	Solid	SHAKE	
885-48761-20 MSD	BS25-11 1'	Total/NA	Solid	SHAKE	

Prep Batch: 48288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-21	BS25-11 2'	Total/NA	Solid	SHAKE	
885-48761-22	BS25-11 3'	Total/NA	Solid	SHAKE	
885-48761-23	BS25-11 4'	Total/NA	Solid	SHAKE	
885-48761-24	BS25-10 1'	Total/NA	Solid	SHAKE	
885-48761-25	BS25-10 2'	Total/NA	Solid	SHAKE	
885-48761-26	BS25-10 3'	Total/NA	Solid	SHAKE	
885-48761-27	BS25-10 4'	Total/NA	Solid	SHAKE	
885-48761-28	BS25-10 5'	Total/NA	Solid	SHAKE	
885-48761-29	BS25-10 6'	Total/NA	Solid	SHAKE	
885-48761-30	BS25-10 7'	Total/NA	Solid	SHAKE	
885-48761-31	BS25-10 8'	Total/NA	Solid	SHAKE	
885-48761-32	BS25-10 9'	Total/NA	Solid	SHAKE	
MB 885-48288/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-48288/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

GC Semi VOA

Analysis Batch: 48383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-21	BS25-11 2'	Total/NA	Solid	8015M/D	48288
885-48761-24	BS25-10 1'	Total/NA	Solid	8015M/D	48288

Analysis Batch: 48384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-1	BS25-12 1'	Total/NA	Solid	8015M/D	48285
885-48761-2	BS25-12 2'	Total/NA	Solid	8015M/D	48285
885-48761-3	BS25-12 3'	Total/NA	Solid	8015M/D	48285
885-48761-4	BS25-12 4'	Total/NA	Solid	8015M/D	48285
885-48761-5	BS25-12 5'	Total/NA	Solid	8015M/D	48285
885-48761-6	BS25-12 6'	Total/NA	Solid	8015M/D	48285
885-48761-7	BS25-12 7'	Total/NA	Solid	8015M/D	48285
885-48761-8	BS25-12 8'	Total/NA	Solid	8015M/D	48285
885-48761-9	BS25-12 9'	Total/NA	Solid	8015M/D	48285
885-48761-10	WS25-09 1'	Total/NA	Solid	8015M/D	48285
885-48761-11	WS25-09 2'	Total/NA	Solid	8015M/D	48285
885-48761-12	WS25-09 3'	Total/NA	Solid	8015M/D	48285
885-48761-13	WS25-09 4'	Total/NA	Solid	8015M/D	48285
885-48761-14	WS25-09 5'	Total/NA	Solid	8015M/D	48285
885-48761-15	WS25-09 6'	Total/NA	Solid	8015M/D	48285
885-48761-16	WS25-09 7'	Total/NA	Solid	8015M/D	48285
885-48761-17	WS25-09 8'	Total/NA	Solid	8015M/D	48285
885-48761-18	WS25-09 9'	Total/NA	Solid	8015M/D	48285
885-48761-19	WS25-09 10'	Total/NA	Solid	8015M/D	48285
MB 885-48285/1-A	Method Blank	Total/NA	Solid	8015M/D	48285
LCS 885-48285/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	48285

Analysis Batch: 48452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-20	BS25-11 1'	Total/NA	Solid	8015M/D	48285
885-48761-20 MS	BS25-11 1'	Total/NA	Solid	8015M/D	48285
885-48761-20 MSD	BS25-11 1'	Total/NA	Solid	8015M/D	48285

Analysis Batch: 48453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-25	BS25-10 2'	Total/NA	Solid	8015M/D	48288

HPLC/IC

Prep Batch: 48163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-1	BS25-12 1'	Total/NA	Solid	300_Prep	
885-48761-2	BS25-12 2'	Total/NA	Solid	300_Prep	
885-48761-3	BS25-12 3'	Total/NA	Solid	300_Prep	
885-48761-4	BS25-12 4'	Total/NA	Solid	300_Prep	
885-48761-5	BS25-12 5'	Total/NA	Solid	300_Prep	
MB 885-48163/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-48163/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

HPLC/IC

Prep Batch: 48166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-6	BS25-12 6'	Total/NA	Solid	300_Prep	
885-48761-7	BS25-12 7'	Total/NA	Solid	300_Prep	
885-48761-8	BS25-12 8'	Total/NA	Solid	300_Prep	
885-48761-9	BS25-12 9'	Total/NA	Solid	300_Prep	
885-48761-10	WS25-09 1'	Total/NA	Solid	300_Prep	
885-48761-11	WS25-09 2'	Total/NA	Solid	300_Prep	
885-48761-12	WS25-09 3'	Total/NA	Solid	300_Prep	
885-48761-13	WS25-09 4'	Total/NA	Solid	300_Prep	
885-48761-14	WS25-09 5'	Total/NA	Solid	300_Prep	
885-48761-15	WS25-09 6'	Total/NA	Solid	300_Prep	
885-48761-16	WS25-09 7'	Total/NA	Solid	300_Prep	
885-48761-17	WS25-09 8'	Total/NA	Solid	300_Prep	
885-48761-18	WS25-09 9'	Total/NA	Solid	300_Prep	
885-48761-19	WS25-09 10'	Total/NA	Solid	300_Prep	
885-48761-20	BS25-11 1'	Total/NA	Solid	300_Prep	
885-48761-21	BS25-11 2'	Total/NA	Solid	300_Prep	
885-48761-22	BS25-11 3'	Total/NA	Solid	300_Prep	
885-48761-23	BS25-11 4'	Total/NA	Solid	300_Prep	
885-48761-24	BS25-10 1'	Total/NA	Solid	300_Prep	
885-48761-25	BS25-10 2'	Total/NA	Solid	300_Prep	
MB 885-48166/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-48166/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-48761-6 MSD	BS25-12 6'	Total/NA	Solid	300_Prep	

Analysis Batch: 48196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-1	BS25-12 1'	Total/NA	Solid	300.0	48163
885-48761-2	BS25-12 2'	Total/NA	Solid	300.0	48163
885-48761-3	BS25-12 3'	Total/NA	Solid	300.0	48163
885-48761-4	BS25-12 4'	Total/NA	Solid	300.0	48163
885-48761-5	BS25-12 5'	Total/NA	Solid	300.0	48163
885-48761-6	BS25-12 6'	Total/NA	Solid	300.0	48166
885-48761-7	BS25-12 7'	Total/NA	Solid	300.0	48166
885-48761-8	BS25-12 8'	Total/NA	Solid	300.0	48166
885-48761-9	BS25-12 9'	Total/NA	Solid	300.0	48166
885-48761-10	WS25-09 1'	Total/NA	Solid	300.0	48166
885-48761-11	WS25-09 2'	Total/NA	Solid	300.0	48166
885-48761-12	WS25-09 3'	Total/NA	Solid	300.0	48166
885-48761-15	WS25-09 6'	Total/NA	Solid	300.0	48166
885-48761-16	WS25-09 7'	Total/NA	Solid	300.0	48166
885-48761-17	WS25-09 8'	Total/NA	Solid	300.0	48166
885-48761-18	WS25-09 9'	Total/NA	Solid	300.0	48166
885-48761-19	WS25-09 10'	Total/NA	Solid	300.0	48166
885-48761-20	BS25-11 1'	Total/NA	Solid	300.0	48166
885-48761-21	BS25-11 2'	Total/NA	Solid	300.0	48166
885-48761-22	BS25-11 3'	Total/NA	Solid	300.0	48166
885-48761-23	BS25-11 4'	Total/NA	Solid	300.0	48166
885-48761-24	BS25-10 1'	Total/NA	Solid	300.0	48166
885-48761-25	BS25-10 2'	Total/NA	Solid	300.0	48166
MB 885-48163/1-A	Method Blank	Total/NA	Solid	300.0	48163
MB 885-48166/1-A	Method Blank	Total/NA	Solid	300.0	48166

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

HPLC/IC (Continued)

Analysis Batch: 48196 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-48163/2-A	Lab Control Sample	Total/NA	Solid	300.0	48163
LCS 885-48166/2-A	Lab Control Sample	Total/NA	Solid	300.0	48166
885-48761-6 MSD	BS25-12 6'	Total/NA	Solid	300.0	48166

Prep Batch: 48214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-26	BS25-10 3'	Total/NA	Solid	300_Prep	
885-48761-27	BS25-10 4'	Total/NA	Solid	300_Prep	
885-48761-28	BS25-10 5'	Total/NA	Solid	300_Prep	
885-48761-29	BS25-10 6'	Total/NA	Solid	300_Prep	
885-48761-30	BS25-10 7'	Total/NA	Solid	300_Prep	
885-48761-31	BS25-10 8'	Total/NA	Solid	300_Prep	
885-48761-32	BS25-10 9'	Total/NA	Solid	300_Prep	
MB 885-48214/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-48214/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 48261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-26	BS25-10 3'	Total/NA	Solid	300.0	48214
885-48761-27	BS25-10 4'	Total/NA	Solid	300.0	48214
885-48761-28	BS25-10 5'	Total/NA	Solid	300.0	48214
885-48761-29	BS25-10 6'	Total/NA	Solid	300.0	48214
885-48761-30	BS25-10 7'	Total/NA	Solid	300.0	48214
885-48761-31	BS25-10 8'	Total/NA	Solid	300.0	48214
885-48761-32	BS25-10 9'	Total/NA	Solid	300.0	48214
MB 885-48214/1-A	Method Blank	Total/NA	Solid	300.0	48214
LCS 885-48214/2-A	Lab Control Sample	Total/NA	Solid	300.0	48214

Analysis Batch: 48292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-48761-13	WS25-09 4'	Total/NA	Solid	300.0	48166
885-48761-14	WS25-09 5'	Total/NA	Solid	300.0	48166

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-12 1'

Lab Sample ID: 885-48761-1

Date Collected: 05/01/26 08:00

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 12:11
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 12:11
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 12:13
Total/NA	Prep	300_Prep			48163	MS	EET ALB	05/06/26 14:46
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 15:21

Client Sample ID: BS25-12 2'

Lab Sample ID: 885-48761-2

Date Collected: 05/01/26 08:10

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 13:17
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 13:17
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 12:25
Total/NA	Prep	300_Prep			48163	MS	EET ALB	05/06/26 14:46
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 15:35

Client Sample ID: BS25-12 3'

Lab Sample ID: 885-48761-3

Date Collected: 05/01/26 08:20

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 14:23
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 14:23
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 12:37
Total/NA	Prep	300_Prep			48163	MS	EET ALB	05/06/26 14:46
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 15:48

Client Sample ID: BS25-12 4'

Lab Sample ID: 885-48761-4

Date Collected: 05/01/26 08:30

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 14:45

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-12 4'

Lab Sample ID: 885-48761-4

Date Collected: 05/01/26 08:30

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 14:45
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 12:49
Total/NA	Prep	300_Prep			48163	MS	EET ALB	05/06/26 14:46
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 16:02

Client Sample ID: BS25-12 5'

Lab Sample ID: 885-48761-5

Date Collected: 05/01/26 08:40

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 15:07
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 15:07
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 13:01
Total/NA	Prep	300_Prep			48163	MS	EET ALB	05/06/26 14:46
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 16:16

Client Sample ID: BS25-12 6'

Lab Sample ID: 885-48761-6

Date Collected: 05/01/26 08:50

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 15:29
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 15:29
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 13:13
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 16:57

Client Sample ID: BS25-12 7'

Lab Sample ID: 885-48761-7

Date Collected: 05/01/26 09:00

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 15:51
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 15:51

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-12 7'

Lab Sample ID: 885-48761-7

Date Collected: 05/01/26 09:00

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 13:26
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 17:10

Client Sample ID: BS25-12 8'

Lab Sample ID: 885-48761-8

Date Collected: 05/01/26 09:10

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 16:13
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 16:13
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 13:38
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 18:46

Client Sample ID: BS25-12 9'

Lab Sample ID: 885-48761-9

Date Collected: 05/01/26 09:20

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 16:35
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 16:35
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 13:50
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 18:59

Client Sample ID: WS25-09 1'

Lab Sample ID: 885-48761-10

Date Collected: 05/01/26 09:30

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 16:57
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 16:57
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 14:14

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: WS25-09 1'
Date Collected: 05/01/26 09:30
Date Received: 05/06/26 07:55

Lab Sample ID: 885-48761-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 19:13

Client Sample ID: WS25-09 2'
Date Collected: 05/01/26 09:40
Date Received: 05/06/26 07:55

Lab Sample ID: 885-48761-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 17:41
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 17:41
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 14:26
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 19:27

Client Sample ID: WS25-09 3'
Date Collected: 05/01/26 09:50
Date Received: 05/06/26 07:55

Lab Sample ID: 885-48761-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 18:03
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 18:03
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 14:39
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 19:40

Client Sample ID: WS25-09 4'
Date Collected: 05/01/26 10:00
Date Received: 05/06/26 07:55

Lab Sample ID: 885-48761-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 18:25
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 18:25
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 14:51
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		20	48292	MS	EET ALB	05/08/26 13:08

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: WS25-09 5'

Lab Sample ID: 885-48761-14

Date Collected: 05/01/26 10:10

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 18:47
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 18:47
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 15:04
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		20	48292	MS	EET ALB	05/08/26 13:50

Client Sample ID: WS25-09 6'

Lab Sample ID: 885-48761-15

Date Collected: 05/01/26 10:20

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 19:09
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 19:09
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 15:16
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 20:49

Client Sample ID: WS25-09 7'

Lab Sample ID: 885-48761-16

Date Collected: 05/01/26 10:30

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 19:31
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 19:31
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 15:28
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 21:02

Client Sample ID: WS25-09 8'

Lab Sample ID: 885-48761-17

Date Collected: 05/01/26 10:40

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 19:53

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: WS25-09 8'

Lab Sample ID: 885-48761-17

Date Collected: 05/01/26 10:40

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 19:53
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 15:41
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 21:16

Client Sample ID: WS25-09 9'

Lab Sample ID: 885-48761-18

Date Collected: 05/01/26 10:50

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 20:15
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 20:15
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 15:53
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 21:30

Client Sample ID: WS25-09 10'

Lab Sample ID: 885-48761-19

Date Collected: 05/01/26 13:00

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 20:37
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 20:37
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48384	DH	EET ALB	05/11/26 16:05
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 21:43

Client Sample ID: BS25-11 1'

Lab Sample ID: 885-48761-20

Date Collected: 05/01/26 13:10

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8015M/D		1	48215	AT	EET ALB	05/07/26 20:59
Total/NA	Prep	5030C			48137	VP	EET ALB	05/06/26 11:26
Total/NA	Analysis	8021B		1	48216	AT	EET ALB	05/07/26 20:59

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-11 1'

Lab Sample ID: 885-48761-20

Date Collected: 05/01/26 13:10

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			48285	EM	EET ALB	05/08/26 09:30
Total/NA	Analysis	8015M/D		1	48452	EM	EET ALB	05/12/26 12:21
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 21:57

Client Sample ID: BS25-11 2'

Lab Sample ID: 885-48761-21

Date Collected: 05/01/26 13:20

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8015M/D		1	48277	AT	EET ALB	05/07/26 23:10
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8021B		1	48276	AT	EET ALB	05/07/26 23:10
Total/NA	Prep	SHAKE			48288	DH	EET ALB	05/08/26 09:45
Total/NA	Analysis	8015M/D		1	48383	DH	EET ALB	05/11/26 14:18
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 22:11

Client Sample ID: BS25-11 3'

Lab Sample ID: 885-48761-22

Date Collected: 05/01/26 13:30

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8015M/D		1	48277	AT	EET ALB	05/08/26 00:16
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8021B		1	48276	AT	EET ALB	05/08/26 00:16
Total/NA	Prep	SHAKE			48288	DH	EET ALB	05/08/26 09:45
Total/NA	Analysis	8015M/D		1	48281	EM	EET ALB	05/09/26 00:34
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 22:24

Client Sample ID: BS25-11 4'

Lab Sample ID: 885-48761-23

Date Collected: 05/01/26 13:40

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8015M/D		1	48277	AT	EET ALB	05/08/26 01:22
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8021B		1	48276	AT	EET ALB	05/08/26 01:22
Total/NA	Prep	SHAKE			48288	DH	EET ALB	05/08/26 09:45
Total/NA	Analysis	8015M/D		1	48281	EM	EET ALB	05/09/26 00:46

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-11 4'
Date Collected: 05/01/26 13:40
Date Received: 05/06/26 07:55

Lab Sample ID: 885-48761-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 22:38

Client Sample ID: BS25-10 1'
Date Collected: 05/02/26 08:00
Date Received: 05/06/26 07:55

Lab Sample ID: 885-48761-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8015M/D		1	48277	AT	EET ALB	05/08/26 01:44
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8021B		1	48276	AT	EET ALB	05/08/26 01:44
Total/NA	Prep	SHAKE			48288	DH	EET ALB	05/08/26 09:45
Total/NA	Analysis	8015M/D		1	48383	DH	EET ALB	05/11/26 15:01
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 23:19

Client Sample ID: BS25-10 2'
Date Collected: 05/02/26 08:10
Date Received: 05/06/26 07:55

Lab Sample ID: 885-48761-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8015M/D		1	48277	AT	EET ALB	05/08/26 02:06
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8021B		1	48276	AT	EET ALB	05/08/26 02:06
Total/NA	Prep	SHAKE			48288	DH	EET ALB	05/08/26 09:45
Total/NA	Analysis	8015M/D		10	48453	EM	EET ALB	05/12/26 12:53
Total/NA	Prep	300_Prep			48166	MS	EET ALB	05/06/26 15:45
Total/NA	Analysis	300.0		10	48196	MS	EET ALB	05/07/26 23:33

Client Sample ID: BS25-10 3'
Date Collected: 05/02/26 08:20
Date Received: 05/06/26 07:55

Lab Sample ID: 885-48761-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8015M/D		1	48277	AT	EET ALB	05/08/26 02:28
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8021B		1	48276	AT	EET ALB	05/08/26 02:28
Total/NA	Prep	SHAKE			48288	DH	EET ALB	05/08/26 09:45
Total/NA	Analysis	8015M/D		1	48281	EM	EET ALB	05/09/26 01:23
Total/NA	Prep	300_Prep			48214	MS	EET ALB	05/07/26 10:35
Total/NA	Analysis	300.0		10	48261	MS	EET ALB	05/08/26 15:29

Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-10 4'

Lab Sample ID: 885-48761-27

Date Collected: 05/02/26 08:30

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8015M/D		1	48277	AT	EET ALB	05/08/26 02:50
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8021B		1	48276	AT	EET ALB	05/08/26 02:50
Total/NA	Prep	SHAKE			48288	DH	EET ALB	05/08/26 09:45
Total/NA	Analysis	8015M/D		1	48281	EM	EET ALB	05/09/26 01:35
Total/NA	Prep	300_Prep			48214	MS	EET ALB	05/07/26 10:35
Total/NA	Analysis	300.0		10	48261	MS	EET ALB	05/08/26 15:43

Client Sample ID: BS25-10 5'

Lab Sample ID: 885-48761-28

Date Collected: 05/02/26 08:40

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8015M/D		1	48277	AT	EET ALB	05/08/26 03:12
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8021B		1	48276	AT	EET ALB	05/08/26 03:12
Total/NA	Prep	SHAKE			48288	DH	EET ALB	05/08/26 09:45
Total/NA	Analysis	8015M/D		1	48281	EM	EET ALB	05/09/26 01:47
Total/NA	Prep	300_Prep			48214	MS	EET ALB	05/07/26 10:35
Total/NA	Analysis	300.0		10	48261	MS	EET ALB	05/08/26 15:57

Client Sample ID: BS25-10 6'

Lab Sample ID: 885-48761-29

Date Collected: 05/02/26 08:50

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8015M/D		1	48277	AT	EET ALB	05/08/26 03:34
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8021B		1	48276	AT	EET ALB	05/08/26 03:34
Total/NA	Prep	SHAKE			48288	DH	EET ALB	05/08/26 09:45
Total/NA	Analysis	8015M/D		1	48281	EM	EET ALB	05/09/26 01:59
Total/NA	Prep	300_Prep			48214	MS	EET ALB	05/07/26 10:35
Total/NA	Analysis	300.0		10	48261	MS	EET ALB	05/08/26 16:10

Client Sample ID: BS25-10 7'

Lab Sample ID: 885-48761-30

Date Collected: 05/02/26 09:00

Matrix: Solid

Date Received: 05/06/26 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8015M/D		1	48277	AT	EET ALB	05/08/26 03:56

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Lab Chronicle

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Client Sample ID: BS25-10 7'
Date Collected: 05/02/26 09:00
Date Received: 05/06/26 07:55

Lab Sample ID: 885-48761-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8021B		1	48276	AT	EET ALB	05/08/26 03:56
Total/NA	Prep	SHAKE			48288	DH	EET ALB	05/08/26 09:45
Total/NA	Analysis	8015M/D		1	48281	EM	EET ALB	05/09/26 02:23
Total/NA	Prep	300_Prep			48214	MS	EET ALB	05/07/26 10:35
Total/NA	Analysis	300.0		10	48261	MS	EET ALB	05/08/26 16:24

Client Sample ID: BS25-10 8'
Date Collected: 05/02/26 09:10
Date Received: 05/06/26 07:55

Lab Sample ID: 885-48761-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8015M/D		1	48286	AT	EET ALB	05/08/26 10:45
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8021B		1	48287	AT	EET ALB	05/08/26 10:45
Total/NA	Prep	SHAKE			48288	DH	EET ALB	05/08/26 09:45
Total/NA	Analysis	8015M/D		1	48281	EM	EET ALB	05/09/26 02:36
Total/NA	Prep	300_Prep			48214	MS	EET ALB	05/07/26 10:35
Total/NA	Analysis	300.0		10	48261	MS	EET ALB	05/08/26 17:05

Client Sample ID: BS25-10 9'
Date Collected: 05/02/26 09:20
Date Received: 05/06/26 07:55

Lab Sample ID: 885-48761-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8015M/D		1	48286	AT	EET ALB	05/08/26 11:07
Total/NA	Prep	5030C			48149	JP	EET ALB	05/06/26 13:36
Total/NA	Analysis	8021B		1	48287	AT	EET ALB	05/08/26 11:07
Total/NA	Prep	SHAKE			48288	DH	EET ALB	05/08/26 09:45
Total/NA	Analysis	8015M/D		1	48281	EM	EET ALB	05/09/26 02:48
Total/NA	Prep	300_Prep			48214	MS	EET ALB	05/07/26 10:35
Total/NA	Analysis	300.0		10	48261	MS	EET ALB	05/08/26 17:19

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex
Project/Site: SDE 31 Federal CTB

Job ID: 885-48761-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425	02-25-27
The following analytes are included in this report, but the laboratory is not certified by New Mexico State NM9425. This list may include analytes for which the agency does not offer certification :			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-25-27

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Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-48761-1

Login Number: 48761

List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

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

APPENDIX D – Correspondence



Outlook

RE: [EXTERNAL] SDE 31 Fed CTB Closure Denial Clarifications

From Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Date Fri 1/9/2026 10:38 AM
To Sally Carttar <SCarttar@vertexresource.com>
Cc Kent Stallings <kstallings@vertexresource.com>; Raley, Jim <jim.raley@dmn.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

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Good morning, Ms. Carttar

To provide further clarification on the deferral areas: BH23-09 is not an acceptable sample point for deferral of the northern area, as it is outside the deferral zone. Deferral points BS25-07 and BS25-08 are not fully vertically delineated for TPH in the northern deferral area. If cables, piping or other on-pad equipment are at risk of being damaged, sample points as close as possible to these points will be accepted for consideration. Sample point BH23-11 is accepted as fully delineated for the southern deferral area, however, sample points BS25-10, BS25-11, and WS25-09 which have rock refusal or equipment directly beneath must also be fully delineated for deferral, or other sample points for delineation and deferral may be accepted as close as possible to these, and within the deferral area. All deferral sample points must be within each deferral area.

Thank you,

From: Sally Carttar <SCarttar@vertexresource.com>
Sent: Friday, January 9, 2026 8:00 AM
To: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Cc: Kent Stallings <kstallings@vertexresource.com>; Raley, Jim <jim.raley@dmn.com>
Subject: [EXTERNAL] SDE 31 Fed CTB Closure Denial Clarifications

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

Good morning, Mr. Buchanan,

Thank you for your feedback on applications 531855 and 531856,

nKJ1516742526, SDE 31 FEDERAL #004 and

nRM2014559127, SDE 31 FEDERAL CTB respectively.

On behalf of Devon, we are seeking clarification regarding full delineation for site deferral. We feel we have vertically delineated the deferral area considering on site constraints, safety and hand auger refusal.

If we start from the north,

- BH23-09 was taken just east of the northern deferral area. Lab results demonstrated the borehole to be non-detect on TPH and below closure criteria on all 19.15.29 contaminants at 4ft and 6ft.

From the south,

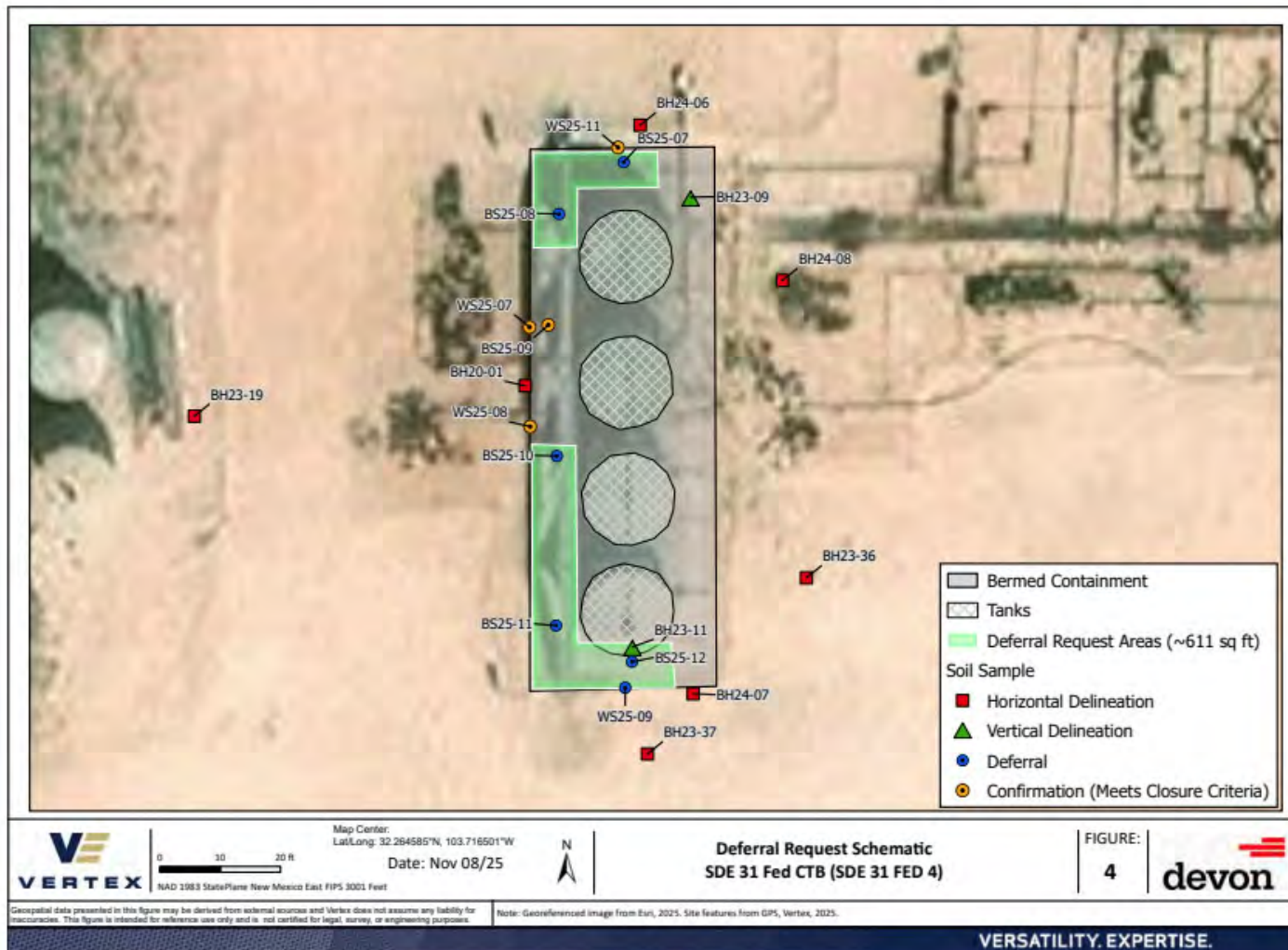
- BH23-11 was taken inside of the 200sq ft area for deferral base sample BS25-12. Lab results demonstrated the borehole to be non-detect on all 19.15.29 contaminants at 2ft, 4ft, and 6ft.

Figure 4 highlights these two boreholes to strictest criteria inside or just outside the deferral areas.

Inside the berm we hit hand auger refusal at 6ft. Considering we were able to collect at least two consecutive vertical samples at each boring below strictest criteria, further sampling was not warranted. Additionally, safety concerns including proximity to the tanks, underground electrical cables, and surface infrastructure, further deemed delineation (mechanical or otherwise) inside of the berm technically infeasible.

Given that there are 4 boreholes and one composite sample at or near the deferral area; two of which are to strictest criteria and refusal, and all of which support that the deferral area contamination is under closure criteria at 2ft, we would like to ask what additional data OCD seeks. Further clarification would be appreciated.

Please find Figure 4 and corresponding Table 5 from the report. Attached are pages 12-25 of the closure report for reference.



Client Name: Devon Energy Production Company, LP
 Site Name: SDE 31 Federal CTB
 NM OCD Tracking #: nKJ1516742526, nRM2014559127
 Project #: 24E-01499

Table 5. Deferral Area Relevant Samples Laboratory Analysis										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	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)	
Depth to Groundwater 51 - 100 feet bgs										
Deferral Base Samples										
BS25-07	0.5	August 22, 2025	ND	ND	ND	1,400	780	1,400	2,180	6,300
BS25-08	0.5	August 22, 2025	ND	0.06	70	4,600	2,700	4,670	7,370	10,000
BS25-10	0.5	August 22, 2025	ND	ND	21	3,600	2,200	3,621	5,821	5,000
BS25-11	0.5	August 22, 2025	ND	ND	ND	3,500	1,600	3,500	5,100	730
BS25-12	0.5	August 22, 2025	ND	ND	ND	3,100	1,300	3,100	4,400	4,100
Deferral Wall Sample										
WS25-09	0-0.5	August 22, 2025	ND	ND	ND	2,600	2,100	2,600	4,700	6,200
Surrounding Wall Samples to Closure Criteria										
WS25-07	0-2	August 22, 2025	ND	ND	ND	860	1,100	860	1,960	9,200
WS25-08	0-0.5	August 22, 2025	ND	ND	ND	920	1,100	920	2,020	6,200
WS25-11	0-0.5	August 22, 2025	ND	ND	ND	28	ND	28	28	6,200
Clean Base Sample Between Northern and Southern Deferral Areas										
BS25-09	2	August 22, 2025	ND	ND	ND	ND	ND	ND	ND	280
Horizontal Delineation										
BH20-01	2	January 20, 2020	ND	ND	ND	59	ND	59	59	920
BH23-19	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	160
BH23-36	0	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-37	0	July 10, 2023	ND	ND	ND	23	ND	23	23	340
	2	July 10, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH24-06	0.5	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	16
	2	April 5, 2024	ND	ND	ND	15	ND	15	15	52
BH24-07	0.5	April 5, 2024	ND	ND	ND	14	ND	14	14	130
	2	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	31
BH24-08	0.5	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	130
	2	April 5, 2024	ND	ND	ND	ND	ND	ND	ND	41
Vertical Delineation										
BH23-09	0	July 9, 2023	ND	ND	ND	220	220	220	440	1,700
	2	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	600
	4	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	130
	6	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	120
BH23-11	0	July 9, 2023	ND	ND	ND	9,400	3,000	9,400	12,400	75
	2	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	4	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	6	July 9, 2023	ND	ND	ND	ND	ND	ND	ND	ND

ND Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)



Sally Carttar
 Project Manager

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

C 575.361.3561

O 575.725.5001

www.vertexresource.com

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Santa Fe, NM 87505

QUESTIONS

Action 604445

QUESTIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 604445
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nKJ1516742526
Incident Name	NKJ1516742526 SDE 31 FEDERAL #004 @ 30-025-32716
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-025-32716] SDE 31 FEDERAL #004

Location of Release Source

Please answer all the questions in this group.

Site Name	SDE 31 FEDERAL #004
Date Release Discovered	06/13/2015
Surface Owner	Federal

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	Cause: Corrosion Flow Line - Production Crude Oil Released: 4 BBL Recovered: 4 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 29 BBL Recovered: 26 BBL Lost: 3 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.

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QUESTIONS, Page 2

Action 604445

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 604445
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 07/13/2026
--	---

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QUESTIONS, Page 3

Action 604445

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 604445
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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 26 and 50 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
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	Greater than 5 (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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (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	No

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)	21000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	30880
GRO+DRO (EPA SW-846 Method 8015M)	20980
BTEX (EPA SW-846 Method 8021B or 8260B)	7.7
Benzene (EPA SW-846 Method 8021B or 8260B)	0.8
<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	06/30/2025
On what date will (or did) the final sampling or liner inspection occur	09/01/2025
On what date will (or was) the remediation complete(d)	09/30/2025
What is the estimated surface area (in square feet) that will be reclaimed	27895
What is the estimated volume (in cubic yards) that will be reclaimed	5200
What is the estimated surface area (in square feet) that will be remediated	3086
What is the estimated volume (in cubic yards) that will be remediated	70
<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 604445

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 604445
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<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>	
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: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 07/13/2026
<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 5

Action 604445

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 604445
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	The tanks would have to be removed from the site. This would interfere with facility operations.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	611
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	203
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-025-32716 SDE 31 FEDERAL #004
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<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>	
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: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 07/13/2026

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QUESTIONS, Page 6

Action 604445

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 604445
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	504355
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/11/2025
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

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	No
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 604445

CONDITIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 604445
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Variance request approved. Deferral of BS25-07, BS25-08, BS25-10, BS25-11, BS25-12, WS25-09 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	7/20/2026