



Incident Numbers: nAPP2231658827 &
nAPP2511450571

Release Assessment and Reclamation Closure

Jackson Disposal Line

Section 28, Township 24 South, Range 33 East

API: 30-025-41230

County: Lea

Vertex File Number: 25A-02314

NMSLO Lease Number: LG41370001/VB174310001

Prepared for:

Jonah Energy

Prepared by:

Vertex Resource Services Inc.

Date:

July 2025

Jonah Energy
Jackson Disposal Line

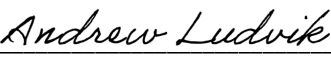
Release Assessment and Reclamation Closure
July 2025

Release Assessment and Reclamation Closure
Jackson Disposal Line
Section 21, Township 24 South, Range 33 East
API: 30-025-41230
County: Lea

Prepared for:
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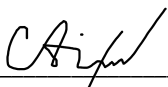
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July 22, 2025

Date



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July 22, 2025

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1.0 Introduction

Tap Rock Resources (Tap Rock) retained Vertex Resource Services, Inc. (Vertex) to complete an inspection and Land Reclamation Plan for the Jackson Disposal Line, API 30-015-41230 (hereafter referred to as the “site”), release area for Incident ID number nAPP2231658827. The release occurred on November 11, 2022, due to a flow line leak from freezing weather, which led to the release of 32 barrels (bbl.) of produced water off pad. None of the free fluids were recovered. Remediation of the reportable release was completed by a past consultant with the Remediation Closure Report being approved by NMOCD on January 24, 2025. Please refer to that report to see details regarding the remedial activities. This site has since been transferred to Jonah Energy (Jonah). During backfill operations on April 24, 2025, an underground pipeline was accidentally struck resulting in produced water being released at the site. Jonah retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for this produced water release. Jonah submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 1 on April 24, 2025. Incident ID number nAPP2511450571 was assigned to this incident.

This report is intended to seek remediation and reclamation closure approval of the incident nAPP2511450571 along with reclamation closure approval for incident nAPP2231658827. This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release nAPP2511450571 and nAPP2231658827, with the understanding that reclamation activities are completed as per NMAC 19.15.29.13.

2.0 Incident Description

The second release occurred on April 24, 2025, due to an accidental pipeline strike during backfill operations of the prior release. The incident was reported on April 24, 2025, and involved the release of approximately 147 (bbl.) of produced water into the pasture area that is parallel to the road. 142 bbl of free fluid was recovered during initial clean-up. Additional details relevant to the release are presented in the C-141 Report. Daily Field Report (DFRs) and site photographs are included in Appendix C.

3.0 Site Characteristics

The site is located approximately 42 miles southeast of Carlsbad, New Mexico. The legal location for the site is Section 28, Township 24 South and Range 33 East in Lea County, New Mexico. The release area is located on New Mexico state land. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the impacted pasture parallel to the road between the well pad and the containment of the site (Figure 1).

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2025) indicates the site’s surface geology primarily comprises Qep – Eolian and Piedmont deposits (Holocene to middle Pleistocene), and is

characterized as Pyote and Maljamar fine sands. Predominant soil texture on the site is Loamy Sand and is characterized as having a drainage class of well drained with a runoff class of negligible. The karst geology potential for the site is Low (United States Department of the Interior, Bureau of Land Management, 2018). The surrounding landscape is associated with Plains with elevations ranging between 3,000 and 3,900 feet. The climate is semiarid with average annual precipitation ranging between 10 and 12 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandus*) and bluestems (*Schizachyrium scoparium* and *Adropogon hallii*). Grasses with shrubs and half-shrubs Primarily, grasses dominate the historic plant community, but sub-shrubs, shrubs, and forbs populate the grassland (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.

4.0 Closure Criteria Determination

The nearest active well to the site is a New Mexico Office of the State Engineer (NMOSE) exploratory borehole located approximately 0.44 miles west of the site (New Mexico Office of the State Engineer, 2025). Data from 2023 shows the NMOSE borehole was recorded as a dry hole at 100 feet below ground surface (bgs). Information pertaining to the depth to ground water determination is included in Appendix B.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 1,667 feet east of the site (New Mexico Department of Surface Water Quality Bureau, 2025). 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.

Jonah Energy
Jackson Disposal Line

Release Assessment and Reclamation Closure
July 2025

Table 1. Closure Criteria Determination			
Site Name: Jackson Disposal Line			
Spill Coordinates: 32.195859,-103.57034		X: 634757.27	Y: 3563041.43
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	>100	feet
	Distance between release and nearest DTGW reference	2,315	feet
		0.44	miles
	Date of nearest DTGW reference measurement	March 23, 2023	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	1,667	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	116,188	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	30,683	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	7,094	feet
	ii) Within 1000 feet of any fresh water well or spring	7,094	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	feet
7	Within 300 feet of a wetland	4,706	feet
8	Within the area overlying a subsurface mine	No	feet
	Distance between release and nearest registered mine	9,555	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	66,158	feet
10	Within a 100-year Floodplain	undetermined	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	68,912	feet
11	Soil Type	PU - Pyote and Maljamar fine sands	
12	Ecological Classification	Loamy Sand R70BD003NM	
13	Geology	Qep - Eolian and Piedmont deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'

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

Table 2. Closure Criteria for Soils 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
> 100 feet	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

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

5.0 Remedial Actions Taken

Remediation efforts began on May 12, 2025 and were finalized on May 30, 2025. Vertex personnel supervised the excavation of impacted soils. Soils were removed to depths of 2.5 to 4 feet bgs. Field screening was completed on a total of 40 sample points and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dextil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and silver nitrate titration (chlorides). Field screening results were used to identify areas requiring further remediation. Soils were removed to a depth of 2.5 to 4 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. A final DFR documenting the backfill and seeding of the excavation is presented in Appendix C.

Notification of confirmatory sampling was provided to the NMOCD before each sampling day and are located on the incident files of the release on OCD Permitting website. Five-point composite confirmatory samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 40 samples were collected and used for confirmation and submitted for laboratory analysis following the NMOCD soil sampling procedures. Samples were submitted to Envirotech 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). Confirmatory laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix D. All confirmatory samples collected and analyzed were below closure criteria for the site.

6.0 Remediation Closure Request

Vertex recommends no additional remediation action to address the impacted area at the site. Laboratory analyses of confirmation samples collected show final confirmatory values below NMOCD closure criteria for areas where depth to groundwater is greater than 100 feet bgs. There are no anticipated risks to human, ecological, or hydrological receptors at the site.

The excavation was backfilled with non-waste-containing, uncontaminated, earthen material sourced locally and placed to meet the site's existing grade to prevent water ponding and erosion. Samples were collected from the caliche and topsoil material prior to backfill activities on May 13, 2025. Analytical data pertaining to the backfill samples is included in Table 4. The top layer of the backfill was seeded on July 21, 2025, with the New Mexico State Land Office loamy sites seed mixture. All ROE, CPP, and biological research requirements were fulfilled in accordance with the work plan approved by the SLO on April 17, 2025, for incident nAPP2231658827. Please refer to the approved Reclamation Plan for details.

Vertex requests that open incidents nAPP2511450571 and nAPP2231658827 be approved for closure as all requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Jonah and Tap Rock Resources certify that all information in this report and the appendices are correct and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain Remediation Closure Approval.

7.0 Land Reclamation

The land reclamation for the site (surface reclamation) is detailed below. This section outlines the principles that were used during the surface reclamation phase for the site. The DFR and site photographs obtained during reclamation procedures are included in Appendix C.

7.1 End Land Use and Capability

The land use surrounding the site is defined as natural; therefore, the end land use would be natural land. A natural area is described as: away from human habitation and activities, where the primary concern is the protection of ecological receptors. The site was reclaimed so that the capability of the land matches that of the areas immediately surrounding the site, which consists of rangeland.

7.2 Restoration of Drainage

Currently, the site consists of a mostly-level pasture area behind a tank battery. The site was contoured to match surrounding topography as near as practicable to restore natural drainage, which was generally in a west-to-east direction. Any compaction on-site was addressed by de-compaction to an approximate depth of 6 inches. All de-compaction activities were conducted post-backfill procedures and pre-seeding to maximize seed to soil contact and promote vegetation establishment.

7.3 Soil Replacement

Surface reclamation included determination of background topsoil depth as site conditions are required to meet pre-existing conditions. Reclamation of the location was completed after backfilling operations. Clean, locally sourced topsoil and caliche was imported to the site to backfill the excavation. The pasture areas were fenced with a 4-strand barbed wire fence.

7.4 Erosion Control

There are currently no erosion concerns on-site, and the use of erosion control devices at this location is not

anticipated; however, erosion control devices will be installed at the discretion of the on-site environmental inspector.

7.5 Re-vegetation

7.5.1 Seeding

A seed mix suitable for the site and surrounding area was used and applied at appropriate rates. Seed establishment and re-vegetation will be monitored, bi-annually, to determine success. New Mexico State Land Office approved loamy seed mix consisting of Black grama – 1.0 lb/acre, Blue grama – 1.0 lb/acre, Sideoats grama – 4.0 lb/acre, Sand dropseed – 2.0 lb/acre, Alkali sacaton – 1.0 lb/acre, Little bluestem – 1.5 lb/acre, Firewheel – 1.0 lb/acre, Fourwing saltbush – 1.0 lb/acre, Common winterfat – 0.5 lb/acre was obtained for the site and administered by Vertex personnel. Seeding was completed using a tractor with rotating discs and broadcasted on all areas under reclamation. Photo documentation of the excavation area after backfill and seeding is located in Appendix C.

7.6 Weed Management

The site will be monitored for vegetative growth throughout the year. Should noxious vegetation be identified on-site, a control program will be implemented and managed as required.

Weed management programs will identify weed species of concern and utilize effective control methods. These methods include but are not limited to: chemical (herbicide) control, mechanical (mowing) control or biological control as approved by governing regulatory agencies.

8.0 Monitoring Program

Bi-annual inspections will be conducted, during the growing season, to monitor site progression and assess the need for additional best management practices (BMPs). Inspections will include photographs of the site and BMPs implemented.

8.1 Final Assessment and Closure Request

During the bi-annual inspections, if site conditions are at or nearing background conditions, a final re-vegetation report will be completed. The report will provide a summary of the vegetation establishment, a summary and interpretation of monitoring data collected, interpretation of historical monitoring data, and suggested corrective actions if applicable.

Should you have any questions or concerns, please do not hesitate to contact Chance Dixon at 575.988.1472 or cdixon@vertexresource.com.

9.0 References

- Google Inc. (2025). *Google Earth Pro (Version 7.3.3)* [Software]. Retrieved from <https://earth.google.com>
- New Mexico Bureau of Geology and Mineral Resources. (2025). *Interactive Geologic Map*. Retrieved from <https://maps.nmt.edu/>
- New Mexico Department of Surface Water Quality Bureau. (2025). *Assessed and Impaired Waters of New Mexico*. Retrieved from <https://gis.web.env.nm.gov/oem/?map=swqb>
- New Mexico Energy, Minerals and Natural Resources Department. (2025). *OCD Permitting - Spill Search*. Retrieved from <https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/Data/Spills/Spills.aspx>
- New Mexico Mining and Minerals Division. (2025). *Coal Mine Resources in New Mexico*. Retrieved from <https://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=5f80f3b0faa545e58fe747cc7b037a93>
- New Mexico Office of the State Engineer. (2025a). *Point of Diversion Location Report - New Mexico Water Rights Reporting System*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html>
- New Mexico Office of the State Engineer. (2025b). *Water Column/Average Depth to Water Report - New Mexico Water Rights Reporting System*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html>
- New Mexico Office of the State Engineer. (2025c). *Well Log/Meter Information Report - New Mexico Water Rights Reporting System*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html>
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2025). *Web Soil Survey*. Retrieved from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>
- United States Department of Homeland Security, Federal Emergency Management Agency. (2025). *FEMA Flood Map Service: Search by Address*. Retrieved from <https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20mexico#searchresultsanchor>
- United States Department of the Interior, Bureau of Land Management. (2018). *New Mexico Cave/Karst*. Retrieved from https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html
- United States Geological Survey. (2025). *National Water Information System: Web Interface*. Retrieved from <https://waterdata.usgs.gov/nwis>
- United States Fish and Wildlife Service. (2025). *National Wetland Inventory - Surface Waters and Wetlands*. Retrieved from <https://fwspprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>

Jonah Energy
Jackson Disposal Line

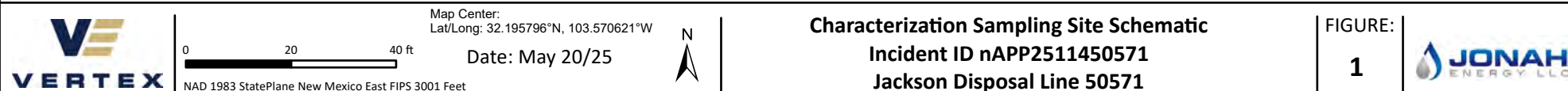
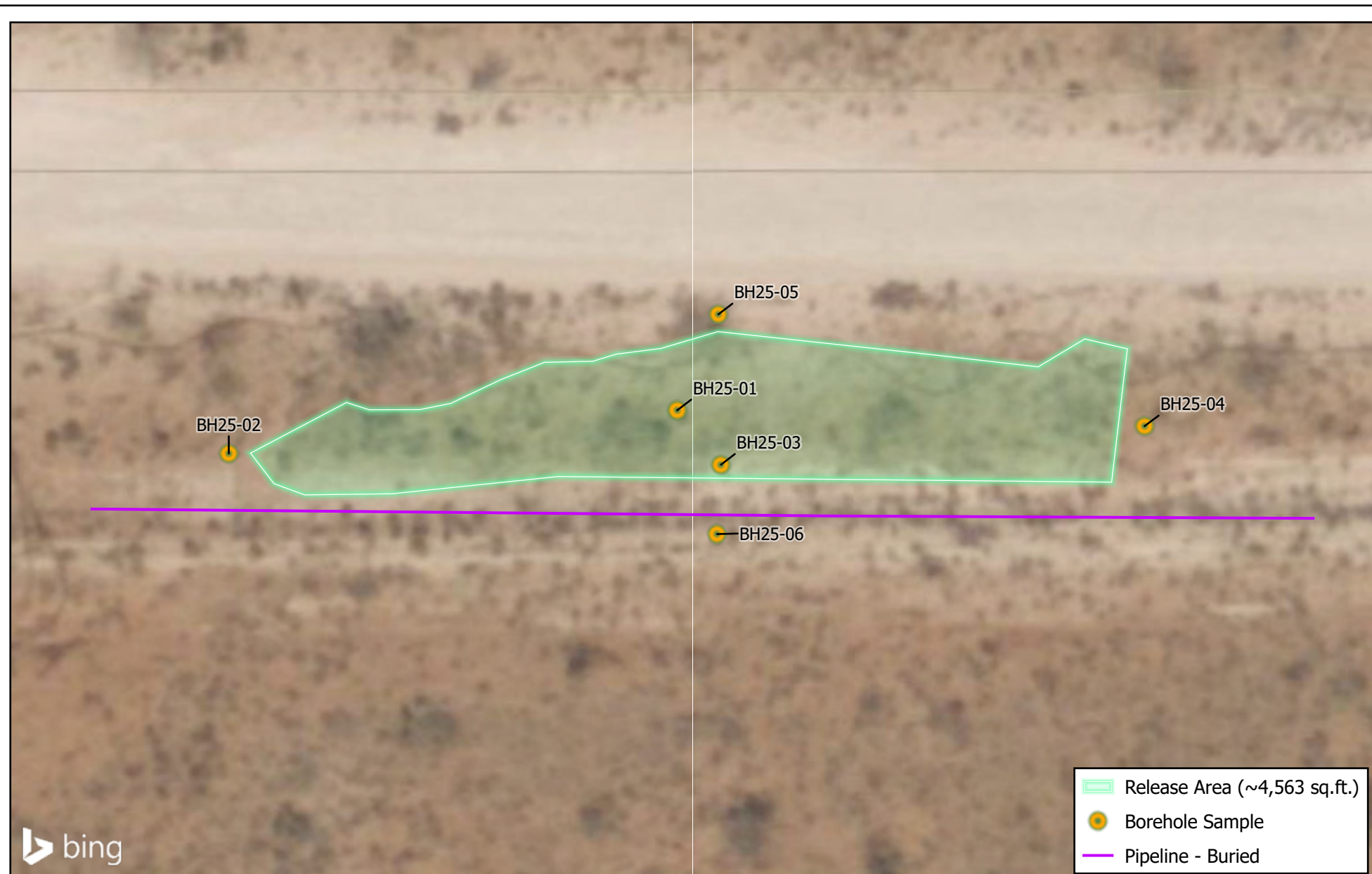
Release Assessment and Reclamation Closure
July 2025

10.0 Limitations

This report has been prepared for the sole benefit of Jonah Energy. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and New Mexico State Land Office, without the express written consent of Vertex Resource Services Inc. (Vertex), Tap Rock Resources and Jonah Energy. 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.

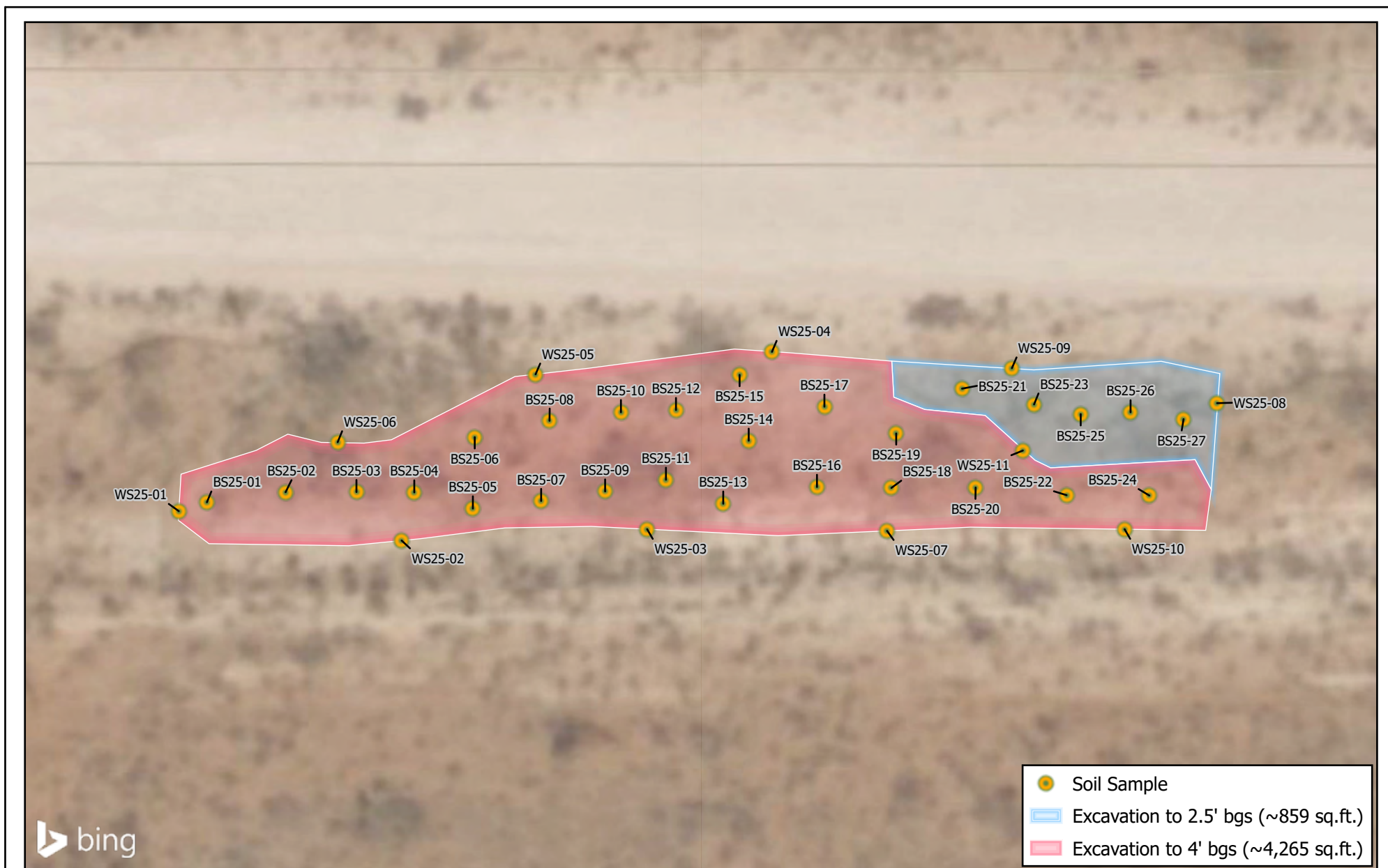
FIGURES



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 15 30 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.195818°N, 103.570619°W

Date: May 20/25



Confirmation Sample Location Schematic

Incident ID nAPP2511450571
Jackson Disposal Line 50571

FIGURE:

2



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: Jonah Energy
Site Name: Jackson Disposal Line 50571
NMOCD Tracking #: nAPP2511450571
Project #: 25A-02314
Lab Reports: E505047, E505079

Table 3. Initial Characterization Sample Field Screen and Laboratory Results																			
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic						
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable											
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)							
			(ppm)	(ppm)	(ppm)								(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Depth to Groundwater >100																
BH25-01	0.5	May 3, 2025	-	-	14,835	-	-	-	-	-	-	-	-						
	2	May 3, 2025	-	-	7,405	-	-	-	-	-	-	-	-						
	3	May 3, 2025	-	33	695	ND	ND	ND	ND	ND	ND	ND	172						
	4	May 3, 2025	-	11	298	ND	ND	ND	ND	ND	ND	ND	128						
BH25-02	0.5	May 3, 2025	-	21	140	ND	ND	ND	ND	ND	ND	ND	ND						
BH25-02	2	May 3, 2025	-	19	210	ND	ND	ND	ND	ND	ND	ND	120						
BH25-03	0.5	May 3, 2025	-	-	345	-	-	-	-	-	-	-	-						
BH25-03	2	May 3, 2025	-	-	1,888	-	-	-	-	-	-	-	-						
BH25-04	0.5	May 3, 2025	-	25	83	ND	ND	ND	ND	ND	ND	ND	22.5						
BH25-04	2	May 3, 2025	-	23	245	ND	ND	ND	ND	ND	ND	ND	168						
BH25-05	0.5	May 3, 2025	-	39	133	ND	ND	ND	ND	ND	ND	ND	61.5						
BH25-05	2	May 3, 2025	-	9	63	ND	ND	ND	ND	ND	ND	ND	28.1						
BH25-06	0.5	May 6, 2025	-	11	278	ND	ND	ND	ND	ND	ND	ND	ND						
BH25-06	2	May 6, 2025	-	21	145	ND	ND	ND	ND	ND	ND	ND	27.1						

"ND" Not Detected at the Reporting Limit
"-" indicates not analyzed/assessed

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



Client Name: Jonah Energy

Site Name: Jackson Disposal Line 50571

NMOCD Tracking #: nAPP2511450571

Project #: 25A-02314

Lab Reports: E505162, E505179, E505198, E505234, E506006

Table 4. Confirmatory Sample Field Screen and Laboratory Results

Table 4. Confirmatory 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 >100										
BS25-01	4	May 14, 2025	ND	ND	ND	ND	ND	ND	ND	1580
BS25-02	4	May 14, 2025	ND	ND	ND	ND	ND	ND	ND	2050
BS25-03	4	May 14, 2025	ND	ND	ND	ND	ND	ND	ND	5290
BS25-04	4	May 14, 2025	ND	ND	ND	ND	ND	ND	ND	3250
BS25-05	4	May 14, 2025	ND	ND	ND	ND	ND	ND	ND	1530
BS25-06	4	May 14, 2025	ND	ND	ND	ND	ND	ND	ND	1480
BS25-07	4	May 14, 2025	ND	ND	ND	ND	ND	ND	ND	3700
BS25-08	4	May 14, 2025	ND	ND	ND	ND	ND	ND	ND	1900
BS25-09	4	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	3770
BS25-10	4	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	2120
BS25-11	4	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	2560
BS25-12	4	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	1920
BS25-13	4	May 13, 2025	ND	ND	ND	358	203	358	561	2200
BS25-14	4	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	748
BS25-15	4	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	4650
BS25-16	4	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	107
BS25-17	4	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	540
BS25-18	4	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	435
BS25-19	4	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	161
BS25-20	4	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	252
BS25-21	2.5	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	239
BS25-22	4	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	236
BS25-23	2.5	May 15, 2025	ND	ND	ND	98.9	211	98.9	309.9	232
	2.75	May 30, 2025	ND	ND	ND	ND	ND	ND	ND	42.2
BS25-24	4	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	313
BS25-25	2.5	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	245
BS25-26	2.5	May 15, 2025	ND	ND	ND	105	230	105	335	234
	2.75	May 30, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-27	2.5	May 15, 2025	ND	ND	ND	ND	62	ND	62	236

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 >100										
WS25-01	0-4	May 14, 2025	ND	ND	ND	ND	ND	ND	ND	433
WS25-02	0-4	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	149
WS25-03	0-4	May 14, 2025	ND	ND	ND	33.2	ND	ND	ND	190
WS25-04	0-4	May 14, 2025	ND	ND	ND	ND	ND	ND	ND	165
WS25-05	0-4	May 14, 2025	ND	ND	ND	ND	ND	ND	ND	104
WS25-06	0-4	May 14, 2025	ND	ND	ND	ND	ND	ND	ND	195
WS25-07	0-4	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	83
WS25-08	0-2.5	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	308
WS25-09	0-2.5	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	49.1
WS25-10	0-4	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	73.3
WS25-11	2.5-4	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	86.8
Backfill-1	0	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	ND
Backfill-2	0	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	54.6
Topsoil-1	0	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	ND
Topsoil-2	0	May 13, 2025	ND	ND	ND	ND	ND	ND	ND	ND

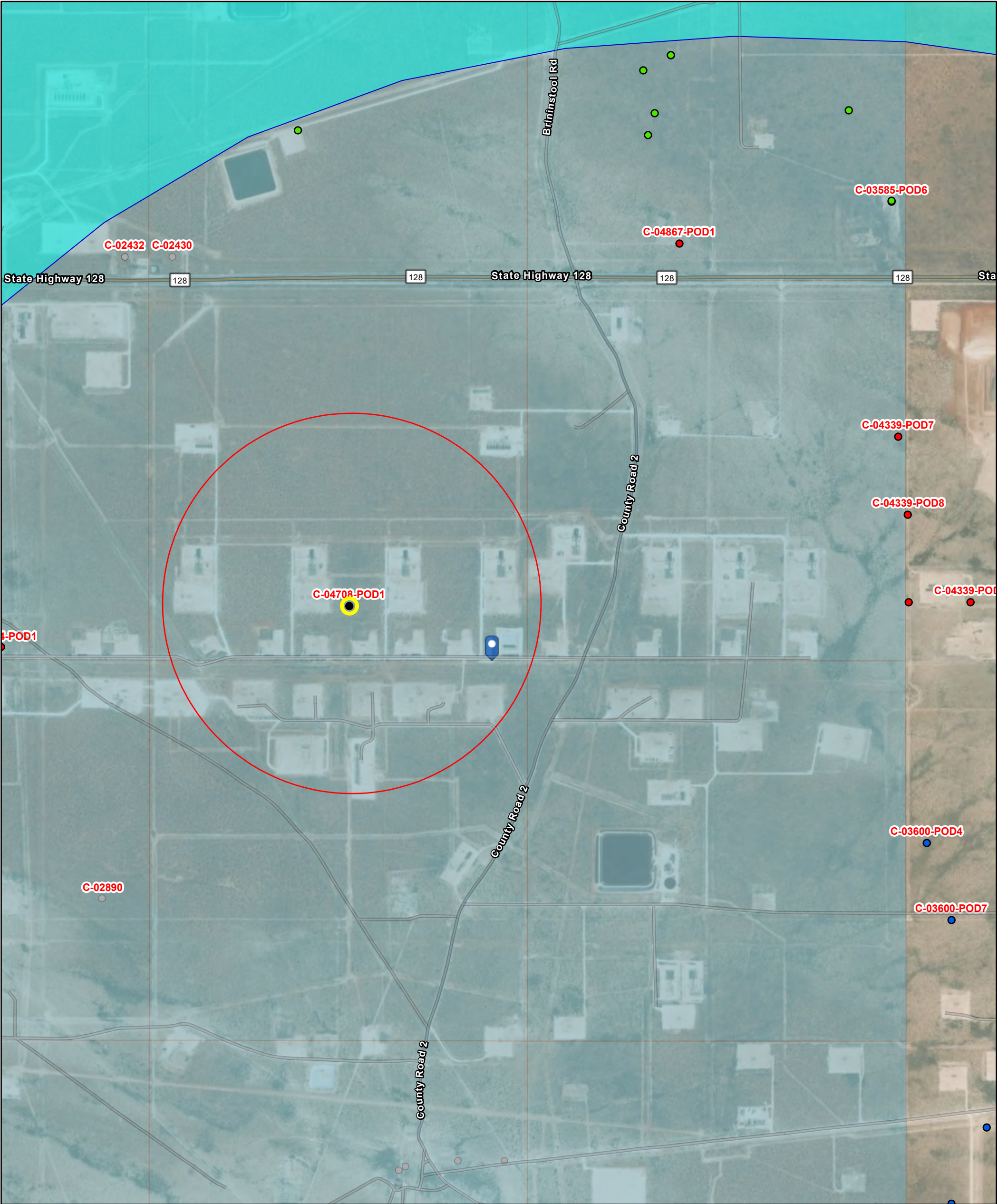
"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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

APPENDIX A – Closure Criteria Research Documentation

OSE POD Location Map



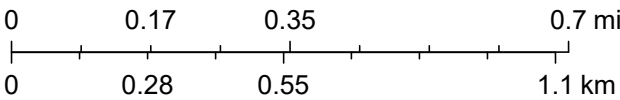
5/7/2025, 10:01:35 AM

GIS WATERS PODs

- Active
- Pending
- Inactive
- Plugged
- OSE District Boundary
- Water Right Regulations
- Closure Area

- Artesian Plan Area
- New Mexico State Trust Lands
- Both Estates

1:18,056



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

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 Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04708 POD1	NW	SW	SE	21	24S	33E	634149.2	3563262.8	

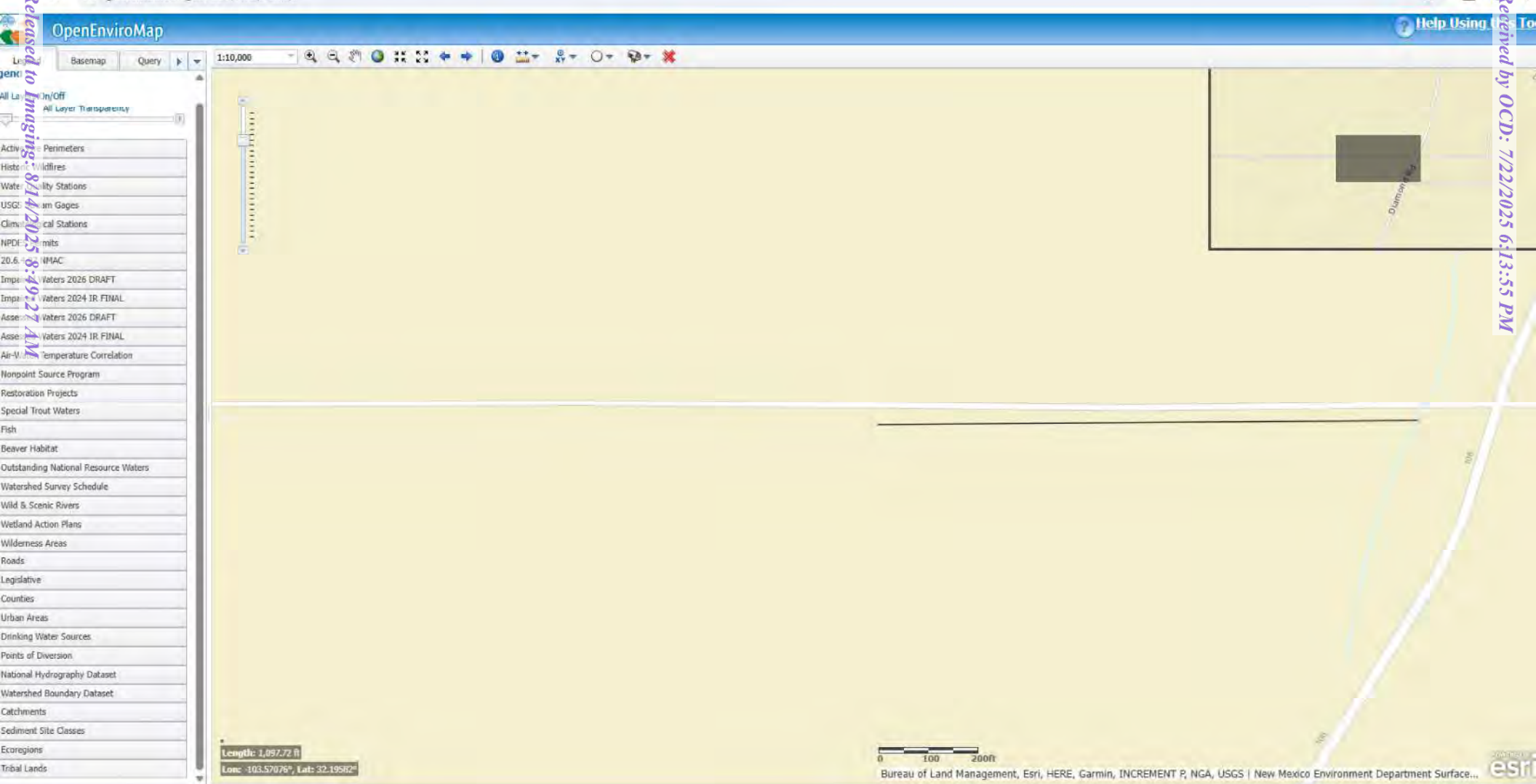
* UTM location was derived from PLSS - see Help

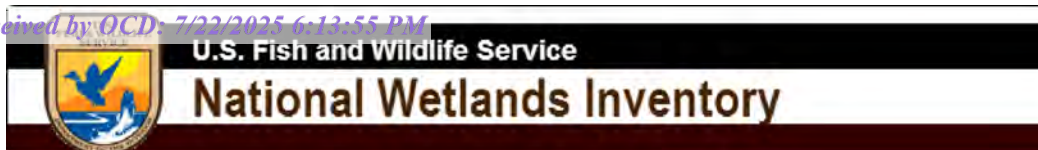
Driller License:	1453	Driller Company:	HYDROTECH DRILLING	
Driller Name:	JOE SKAGGS			
Drill Start Date:	2023-03-23	Drill Finish Date:	2023-03-27	Plug Date:
Log File Date:	2023-06-23	PCW Rcv Date:		Source:
Pump Type:		Pipe Discharge Size:		Estimated Yield:
Casing Size:	3.00	Depth Well:	100	Depth Water:

Casing Perforations:

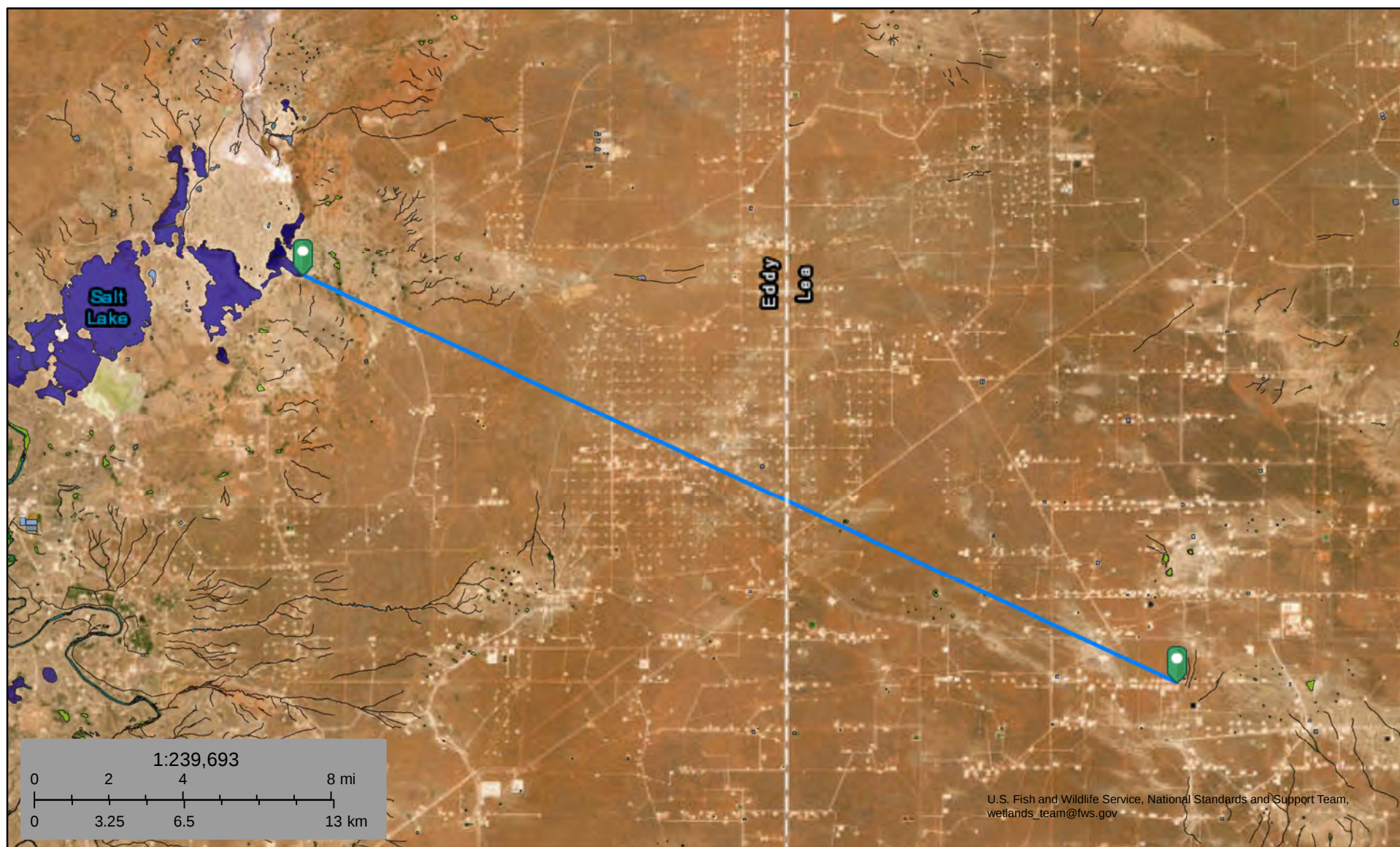
Top	Bottom
80	100

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





Jackson Disposal Line_Lake_116,188 ft



May 30, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

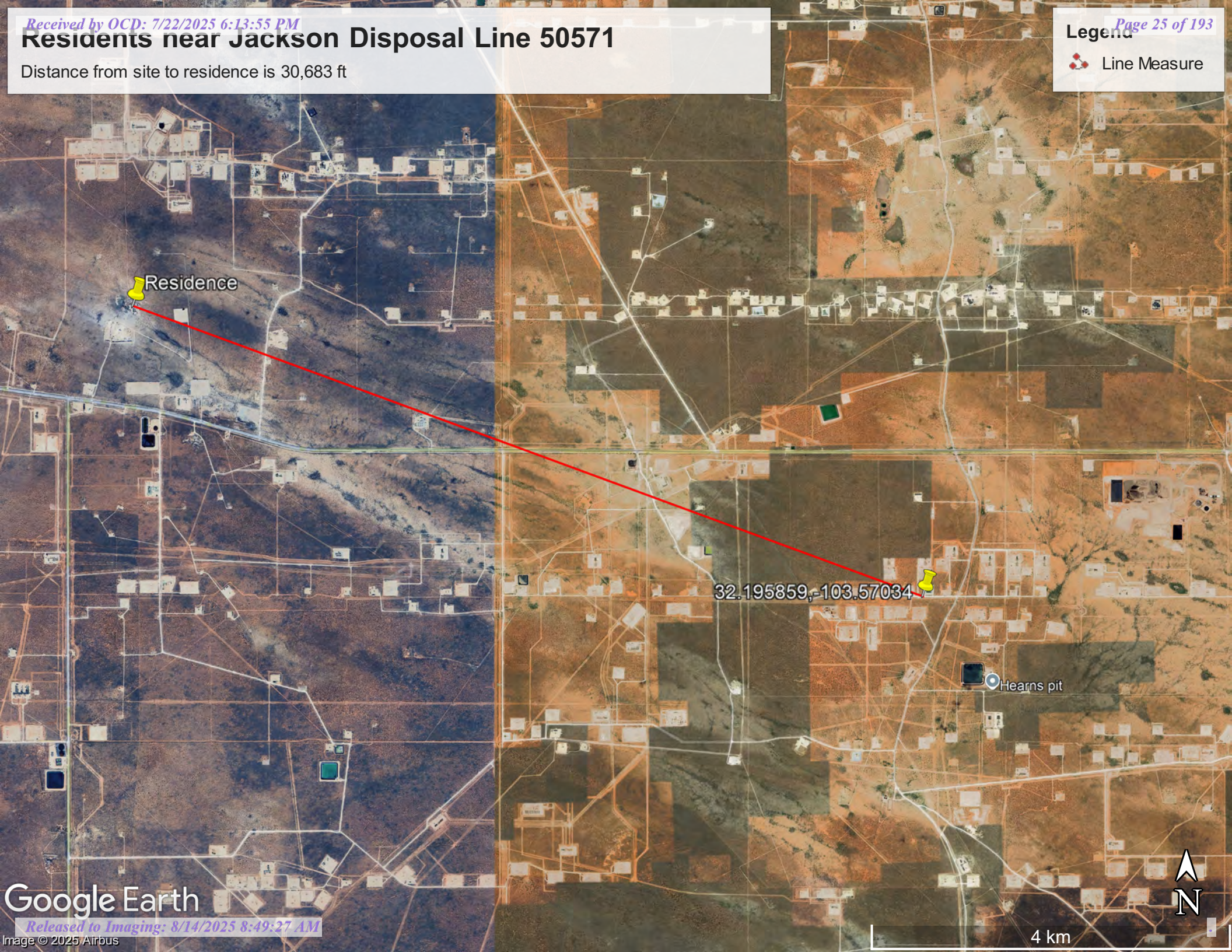
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Residents near Jackson Disposal Line 50571

Distance from site to residence is 30,683 ft

Legend

Line Measure



Google Earth

Released to Imaging: 8/14/2025 8:49:27 AM

Image © 2025 Airbus



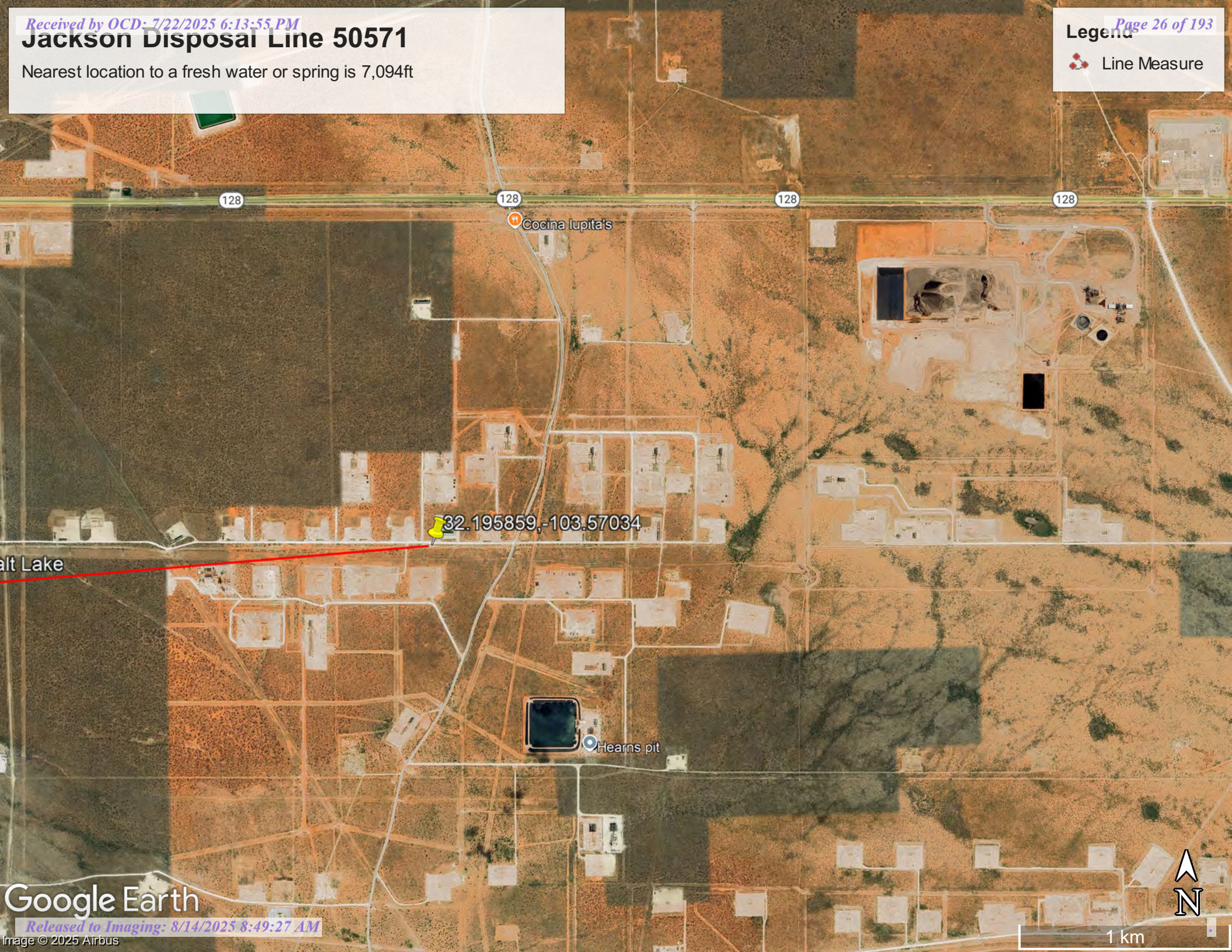
4 km

Jackson Disposal Line 50571

Nearest location to a fresh water or spring is 7,094ft

Legend

Line Measure



32.195859, -103.57034

Salt Lake

Hearns pit

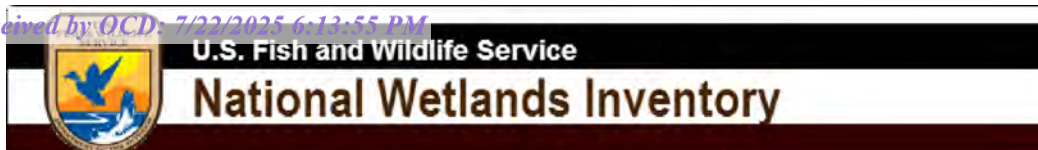
Google Earth

Released to Imaging: 8/14/2025 8:49:27 AM

Image © 2025 Airbus

1 km





Wetland Map



May 7, 2025

Wetlands

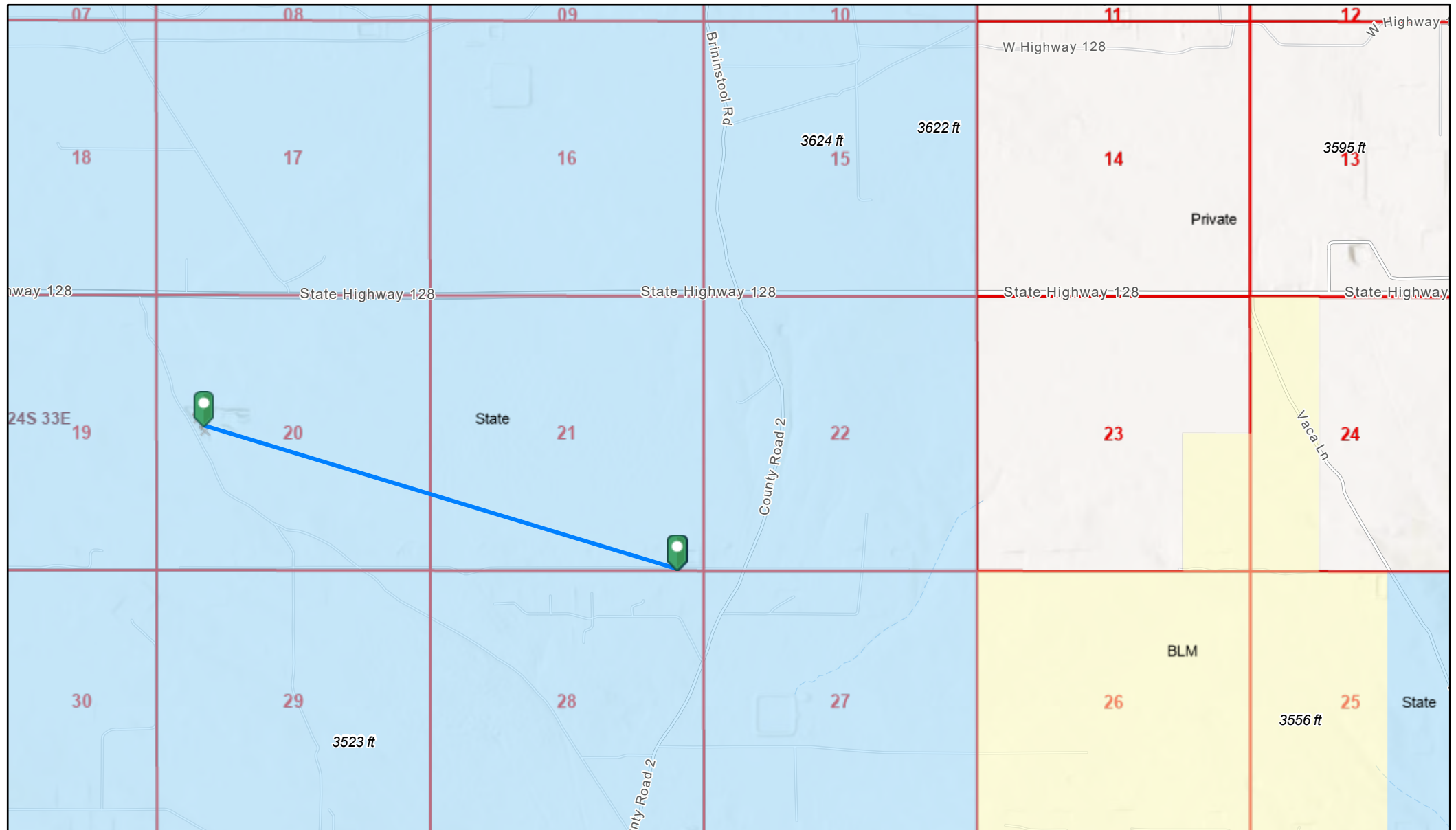
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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.

Active Mines in New Mexico



5/7/2025, 11:25:43 AM

Registered Mines

Land Ownership

S

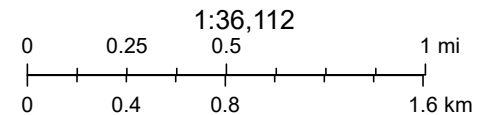
Aggregate, Stone etc.

BLM

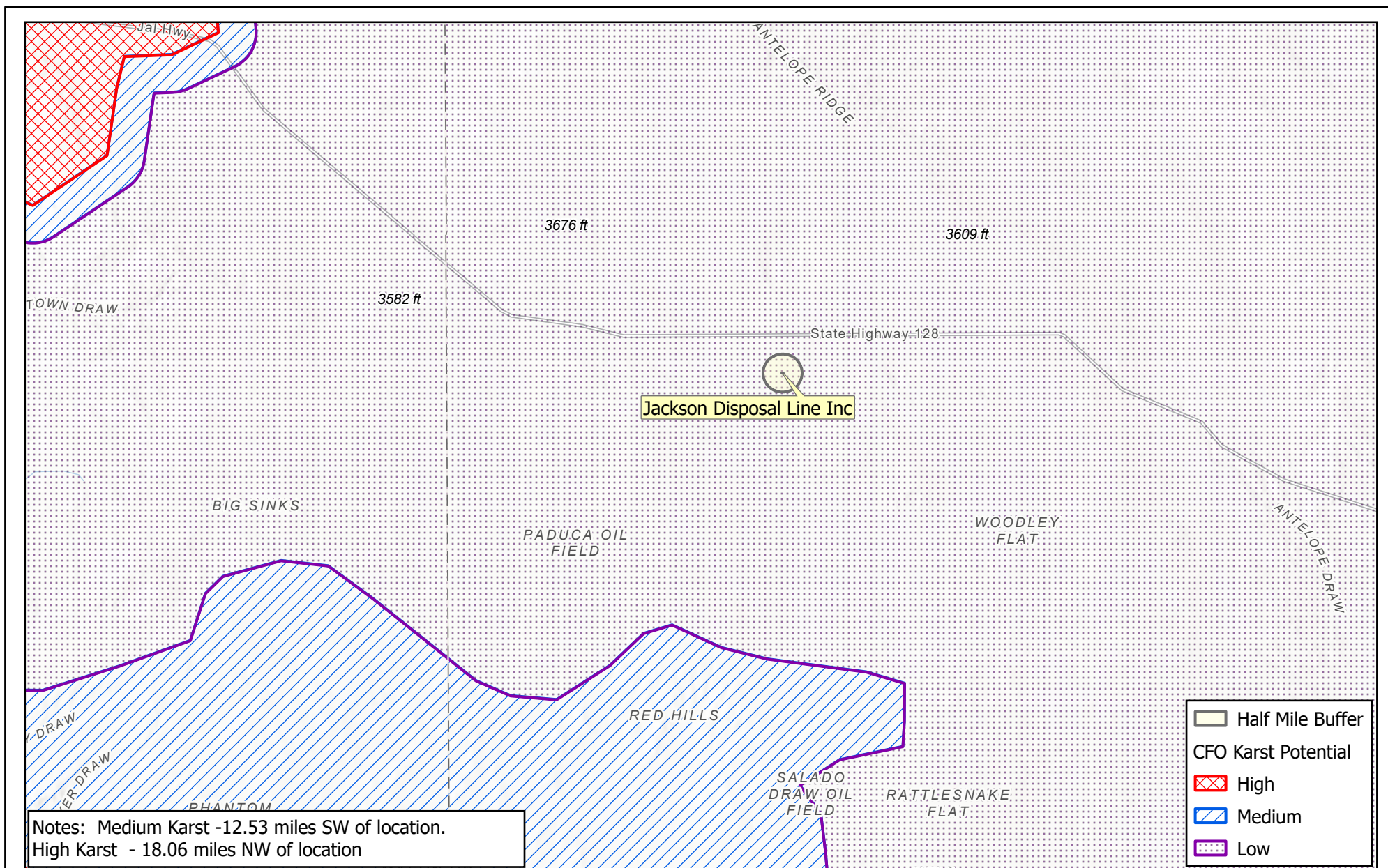
P

PLSS First Division

PLSS Townships



U.S. BLM, Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, BLM



0 2 4 Miles

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.167801°N, 103.607776°W

Date: May 07/25



Karst Potential
Incident ID nAPP2511450571
Jackson Disposal Line

FIGURE:

9



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.

National Flood Hazard Layer FIRMette



103°34'32"W 32°12'N



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

1:6,000

103°33'55"W 32°11'30"N

Released to Imaging: 8/14/2025 8:49:27 AM

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
OTHER AREAS OF FLOOD HAZARD		Regulatory Floodway
		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
OTHER AREAS		Area with Flood Risk due to Levee Zone D
		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		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 5/7/2025 at 5:42 PM 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.

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

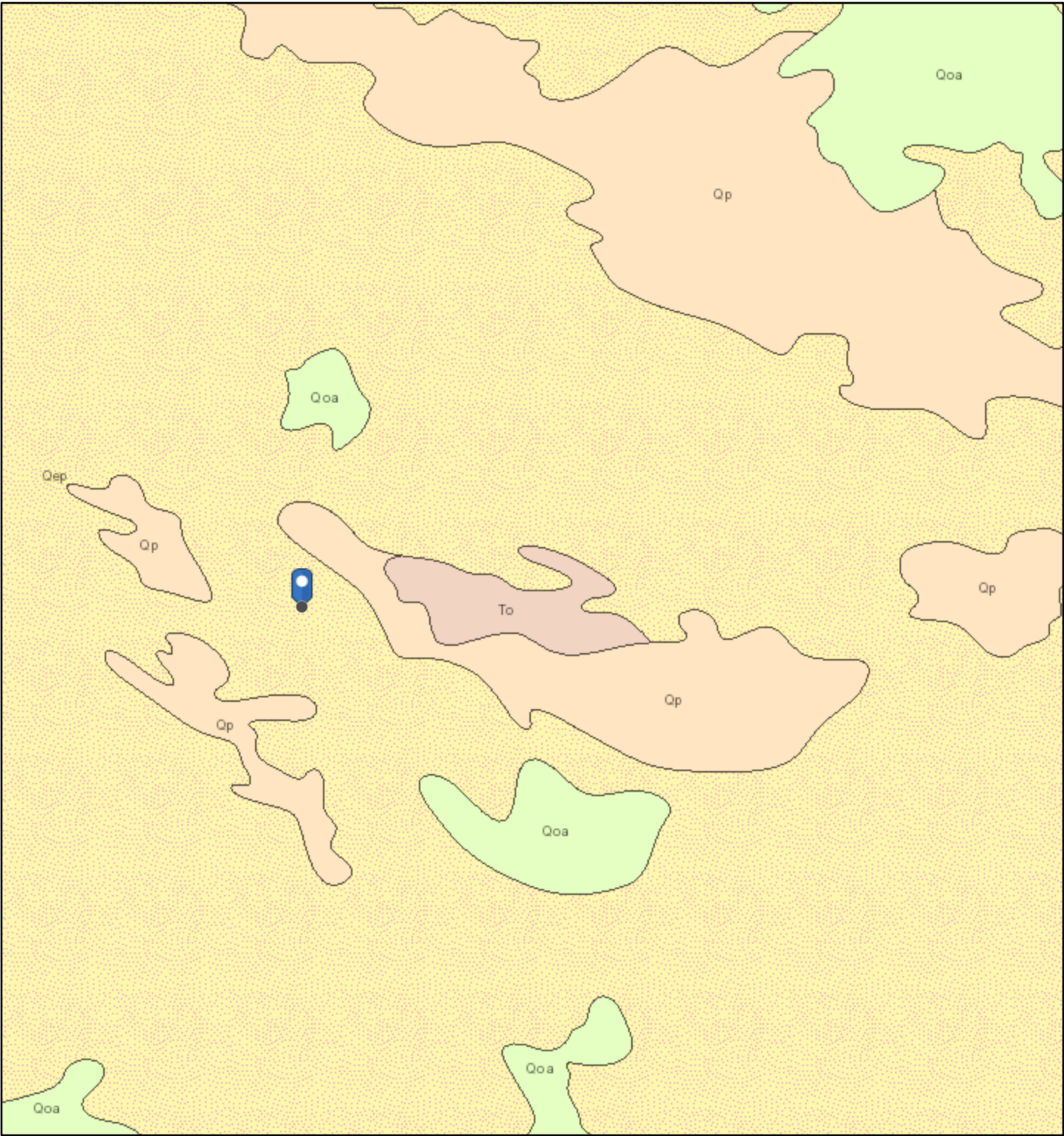
Minor Components**Kermit**

Percent of map unit: 10 percent

Ecological site: R070BC022NM - Sandhills

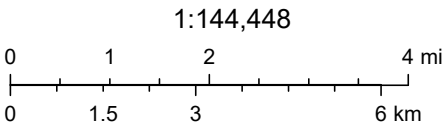
Hydric soil rating: No

13_Geology



5/7/2025, 12:02:47 PM

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



Esri, NASA, NGA, USGS, 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 Road data;

ArcGIS Web AppBuilder

APPENDIX B – Daily Field and Sampling Reports



Daily Site Visit Report

Client:	Jonah Energy	Incident ID #:	nAPP2511450571
Site Location Name:	Jackson Disposal Line	API #:	
Inspection Date:	5/19/2025		

Summary of Times

Arrived at Site	5/19/2025 8:11 AM
Departed Site	5/19/2025 2:54 PM

Field Notes

- 8:44** Completed JSA on arrival. On site to collect remaining confirmation wall samples from south walls of excavation.
- 8:47** Updated excavation map in ArcGIS and confirmed sampling locations. Swept excavation surfaces with magnetic locator prior to ground disturbance.
- 14:41** Collected confirmation samples WS25-02, WS25-07, and WS25-10 from 0 to 4 feet bgs of south wall of excavation. Collected confirmation sample WS25-11 from 2.5 to 4 feet bgs of interior excavation wall. Confirmation samples collected from the excavation walls were 5-point composites representing areas no greater than 200 square feet.
- 14:41** Field screening results for all samples were below NMOCD strictest criteria for chloride and TPH.

Next Steps & Recommendations

- 1 Send confirmation samples to laboratory for analyses.

Daily Site Visit Report



Site Photos

Viewing Direction: Southwest



North edge of excavation facing southwest.
Collected confirmation sample WS25-02.

Viewing Direction: Southeast



North edge of excavation facing southeast.
Collected confirmation sample WS25-07.

Viewing Direction: South



North edge of excavation facing south.
Collected confirmation sample WS25-10.

Viewing Direction: Northeast



Inside excavation facing northeast. Collected confirmation sample WS25-11.



Daily Site Visit Report

Viewing Direction: West



East end of excavation facing west. Excavations to 2.5 and 4 feet bgs.

Viewing Direction: West



East end of excavation facing west. Excavations to 2.5 and 4 feet bgs.

Viewing Direction: Northeast



South edge of excavation facing east-northeast. Excavations to 2.5 and 4 feet bgs.

Viewing Direction: Northwest



South edge of excavation facing west-northwest. Excavation to 4 feet bgs.



Daily Site Visit Report

Viewing Direction: East



West end of excavation facing east.
Excavations to 2.5 and 4 feet bgs.

Viewing Direction: Southwest



North edge of excavation facing west-southwest. Excavation to 4 feet bgs.

Viewing Direction: East



North edge of excavation facing east-southeast. Excavations to 2.5 and 4 feet bgs.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

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

Signature



Daily Site Visit Report

Client:	Jonah Energy	Incident ID #:	
Site Location Name:	Jackson Disposal Line	API #:	
Inspection Date:	5/30/2025		

Summary of Times

Arrived at Site	5/30/2025 12:45 PM
Departed Site	5/30/2025 4:08 PM

Field Notes

13:22 Completed safety paperwork on site

13:23 On site to recollect confirmation base samples BS25-23 and 26 after 1pm per sampling notice

13:35 Obtained:
BS25-23 @ 2.75' bgs
BS25-26 @ 2.75' bgs

16:08 Field screens returned under strictest closure criteria for TPH and Chloride.

Next Steps & Recommendations

1 Send samples to lab

Daily Site Visit Report



Site Photos

Viewing Direction: Southwest



BS25-23 at 2.75' depth

Viewing Direction: Southeast



BS25-26 at 2.75' depth

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:	Jonah Energy	Incident ID #:	nAPP2511450571 nAPP2231658827
Site Location Name:	Jackson Disposal Line	API #:	
Inspection Date:	7/22/2025		

Summary of Times

Arrived at Site	7/22/2025 8:20 AM
Departed Site	7/22/2025 9:46 AM

Field Notes

8:49 On site to document completed backfill of excavation. Assessed site reviewed safety, and filled out JSAs.

8:50 Began documenting completed backfill of excavation.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: Southwest



View of backfilled excavation from access road.

Viewing Direction: West



East end of backfilled excavation facing west.

Viewing Direction: West



East end of backfilled excavation facing west.

Viewing Direction: West



Mid point of backfilled excavation facing west.



Daily Site Visit Report

Viewing Direction: East



West end of backfilled excavation facing east.

Viewing Direction: East



West end of backfilled excavation facing east.

Viewing Direction: East



Mid point of backfilled excavation facing east.

Viewing Direction: East



Side has been seeded.



Daily Site Visit Report

Viewing Direction: South



Side has been seeded.

Viewing Direction: East



East end of worksite.

Viewing Direction: North



Former backfill pile staging area.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature:

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

APPENDIX C – Laboratory Data Reports and Chain of Custody Forms

Report to:
Chance Dixon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Jackson Disposal 50571

Work Order: E505047

Job Number: 25013-0001

Received: 5/6/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/12/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/12/25

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220



Project Name: Jackson Disposal 50571
Workorder: E505047
Date Received: 5/6/2025 8:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/6/2025 8:00:00AM, under the Project Name: Jackson Disposal 50571.

The analytical test results summarized in this report with the Project Name: Jackson Disposal 50571 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 05/12/25 10:53
--	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH25-01 3'	E505047-01A	Soil	05/03/25	05/06/25	Glass Jar, 4 oz.
BH25-01 4'	E505047-02A	Soil	05/03/25	05/06/25	Glass Jar, 4 oz.
BH25-02 0'	E505047-03A	Soil	05/03/25	05/06/25	Glass Jar, 4 oz.
BH25-02 2'	E505047-04A	Soil	05/03/25	05/06/25	Glass Jar, 4 oz.
BH25-04 0'	E505047-05A	Soil	05/03/25	05/06/25	Glass Jar, 4 oz.
BH25-04 2'	E505047-06A	Soil	05/03/25	05/06/25	Glass Jar, 4 oz.
BH25-05 0'	E505047-07A	Soil	05/03/25	05/06/25	Glass Jar, 4 oz.
BH25-05 2'	E505047-08A	Soil	05/03/25	05/06/25	Glass Jar, 4 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/12/2025 10:53:44AM
--	---	--

BH25-01 3'

E505047-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2519032	
Benzene	ND	0.0250	1	05/06/25	05/07/25	
Ethylbenzene	ND	0.0250	1	05/06/25	05/07/25	
Toluene	ND	0.0250	1	05/06/25	05/07/25	
o-Xylene	ND	0.0250	1	05/06/25	05/07/25	
p,m-Xylene	ND	0.0500	1	05/06/25	05/07/25	
Total Xylenes	ND	0.0250	1	05/06/25	05/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2519032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/06/25	05/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		79.9 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2519045	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/06/25	05/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/06/25	05/07/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	05/06/25	05/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2519075	
Chloride	172	20.0	1	05/07/25	05/07/25	



Sample Data

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

Project Name: Jackson Disposal 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/12/2025 10:53:44AM

BH25-01 4'

E505047-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Benzene	ND	0.0250	1	05/06/25	05/07/25	
Ethylbenzene	ND	0.0250	1	05/06/25	05/07/25	
Toluene	ND	0.0250	1	05/06/25	05/07/25	
o-Xylene	ND	0.0250	1	05/06/25	05/07/25	
p,m-Xylene	ND	0.0500	1	05/06/25	05/07/25	
Total Xylenes	ND	0.0250	1	05/06/25	05/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/06/25	05/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.9 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519045
Diesel Range Organics (C10-C28)	ND	25.0	1	05/06/25	05/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/06/25	05/07/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	05/06/25	05/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519075
Chloride	128	20.0	1	05/07/25	05/07/25	



Sample Data

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

Project Name: Jackson Disposal 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/12/2025 10:53:44AM

BH25-02 0'

E505047-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Benzene	ND	0.0250	1	05/06/25	05/07/25	
Ethylbenzene	ND	0.0250	1	05/06/25	05/07/25	
Toluene	ND	0.0250	1	05/06/25	05/07/25	
o-Xylene	ND	0.0250	1	05/06/25	05/07/25	
p,m-Xylene	ND	0.0500	1	05/06/25	05/07/25	
Total Xylenes	ND	0.0250	1	05/06/25	05/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/06/25	05/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.0 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519045
Diesel Range Organics (C10-C28)	ND	25.0	1	05/06/25	05/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/06/25	05/07/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	05/06/25	05/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519075
Chloride	ND	20.0	1	05/07/25	05/07/25	



Sample Data

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

Project Name: Jackson Disposal 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/12/2025 10:53:44AM

BH25-02 2'

E505047-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Benzene	ND	0.0250	1	05/06/25	05/07/25	
Ethylbenzene	ND	0.0250	1	05/06/25	05/07/25	
Toluene	ND	0.0250	1	05/06/25	05/07/25	
o-Xylene	ND	0.0250	1	05/06/25	05/07/25	
p,m-Xylene	ND	0.0500	1	05/06/25	05/07/25	
Total Xylenes	ND	0.0250	1	05/06/25	05/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/06/25	05/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.4 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519045
Diesel Range Organics (C10-C28)	ND	25.0	1	05/06/25	05/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/06/25	05/07/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	05/06/25	05/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519075
Chloride	120	20.0	1	05/07/25	05/07/25	



Sample Data

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

Project Name: Jackson Disposal 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/12/2025 10:53:44AM

BH25-04 0'

E505047-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Benzene	ND	0.0250	1	05/06/25	05/07/25	
Ethylbenzene	ND	0.0250	1	05/06/25	05/07/25	
Toluene	ND	0.0250	1	05/06/25	05/07/25	
o-Xylene	ND	0.0250	1	05/06/25	05/07/25	
p,m-Xylene	ND	0.0500	1	05/06/25	05/07/25	
Total Xylenes	ND	0.0250	1	05/06/25	05/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/06/25	05/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.0 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519045
Diesel Range Organics (C10-C28)	ND	25.0	1	05/06/25	05/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/06/25	05/07/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	05/06/25	05/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519075
Chloride	22.5	20.0	1	05/07/25	05/07/25	



Sample Data

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

Project Name: Jackson Disposal 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/12/2025 10:53:44AM

BH25-04 2'

E505047-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Benzene	ND	0.0250	1	05/06/25	05/07/25	
Ethylbenzene	ND	0.0250	1	05/06/25	05/07/25	
Toluene	ND	0.0250	1	05/06/25	05/07/25	
o-Xylene	ND	0.0250	1	05/06/25	05/07/25	
p,m-Xylene	ND	0.0500	1	05/06/25	05/07/25	
Total Xylenes	ND	0.0250	1	05/06/25	05/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/06/25	05/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.4 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519045
Diesel Range Organics (C10-C28)	ND	25.0	1	05/06/25	05/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/06/25	05/07/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/06/25	05/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519075
Chloride	168	20.0	1	05/07/25	05/07/25	



Sample Data

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

Project Name: Jackson Disposal 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/12/2025 10:53:44AM

BH25-05 0'

E505047-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Benzene	ND	0.0250	1	05/06/25	05/07/25	
Ethylbenzene	ND	0.0250	1	05/06/25	05/07/25	
Toluene	ND	0.0250	1	05/06/25	05/07/25	
o-Xylene	ND	0.0250	1	05/06/25	05/07/25	
p,m-Xylene	ND	0.0500	1	05/06/25	05/07/25	
Total Xylenes	ND	0.0250	1	05/06/25	05/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/06/25	05/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.2 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519045
Diesel Range Organics (C10-C28)	ND	25.0	1	05/06/25	05/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/06/25	05/07/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	05/06/25	05/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519075
Chloride	61.5	20.0	1	05/07/25	05/07/25	



Sample Data

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

Project Name: Jackson Disposal 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/12/2025 10:53:44AM

BH25-05 2'

E505047-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Benzene	ND	0.0250	1	05/06/25	05/07/25	
Ethylbenzene	ND	0.0250	1	05/06/25	05/07/25	
Toluene	ND	0.0250	1	05/06/25	05/07/25	
o-Xylene	ND	0.0250	1	05/06/25	05/07/25	
p,m-Xylene	ND	0.0500	1	05/06/25	05/07/25	
Total Xylenes	ND	0.0250	1	05/06/25	05/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519032
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/06/25	05/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.1 %	70-130	05/06/25	05/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519045
Diesel Range Organics (C10-C28)	ND	25.0	1	05/06/25	05/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/06/25	05/07/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/06/25	05/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519075
Chloride	28.1	20.0	1	05/07/25	05/07/25	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/12/2025 10:53:44AM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2519032-BLK1)

Prepared: 05/06/25 Analyzed: 05/09/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.55		8.00		107	70-130			

LCS (2519032-BS1)

Prepared: 05/06/25 Analyzed: 05/07/25

Benzene	5.68	0.0250	5.00		114	70-130			
Ethylbenzene	5.76	0.0250	5.00		115	70-130			
Toluene	5.69	0.0250	5.00		114	70-130			
o-Xylene	5.72	0.0250	5.00		114	70-130			
p,m-Xylene	11.2	0.0500	10.0		112	70-130			
Total Xylenes	16.9	0.0250	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.74		8.00		109	70-130			

Matrix Spike (2519032-MS1)

Source: E505044-06

Prepared: 05/06/25 Analyzed: 05/07/25

Benzene	5.61	0.0250	5.00	ND	112	70-130			
Ethylbenzene	5.78	0.0250	5.00	0.0280	115	70-130			
Toluene	5.70	0.0250	5.00	ND	114	70-130			
o-Xylene	5.70	0.0250	5.00	0.0275	113	70-130			
p,m-Xylene	11.1	0.0500	10.0	ND	111	70-130			
Total Xylenes	16.8	0.0250	15.0	0.0275	112	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.36		8.00		104	70-130			

Matrix Spike Dup (2519032-MSD1)

Source: E505044-06

Prepared: 05/06/25 Analyzed: 05/07/25

Benzene	5.63	0.0250	5.00	ND	113	70-130	0.334	27	
Ethylbenzene	5.75	0.0250	5.00	0.0280	115	70-130	0.453	26	
Toluene	5.65	0.0250	5.00	ND	113	70-130	0.932	20	
o-Xylene	5.79	0.0250	5.00	0.0275	115	70-130	1.54	25	
p,m-Xylene	11.1	0.0500	10.0	ND	111	70-130	0.0916	23	
Total Xylenes	16.9	0.0250	15.0	0.0275	112	70-130	0.465	26	
Surrogate: 4-Bromochlorobenzene-PID	8.52		8.00		107	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/12/2025 10:53:44AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2519032-BLK1) Prepared: 05/06/25 Analyzed: 05/09/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.63		8.00		82.9	70-130			

LCS (2519032-BS2) Prepared: 05/06/25 Analyzed: 05/07/25

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.86		8.00		85.7	70-130			

Matrix Spike (2519032-MS2) Source: E505044-06 Prepared: 05/06/25 Analyzed: 05/07/25

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.77		8.00		84.6	70-130			

Matrix Spike Dup (2519032-MSD2) Source: E505044-06 Prepared: 05/06/25 Analyzed: 05/07/25

Gasoline Range Organics (C6-C10)	51.3	20.0	50.0	ND	103	70-130	0.414	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.65		8.00		83.1	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/12/2025 10:53:44AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2519045-BLK1)					Prepared: 05/06/25 Analyzed: 05/06/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.6		50.0		91.2	61-141			

LCS (2519045-BS1)					Prepared: 05/06/25 Analyzed: 05/06/25				
Diesel Range Organics (C10-C28)	244	25.0	250		97.7	66-144			
Surrogate: n-Nonane	45.7		50.0		91.4	61-141			

Matrix Spike (2519045-MS1)					Source: E505043-12		Prepared: 05/06/25 Analyzed: 05/06/25		
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	56-156			
Surrogate: n-Nonane	47.6		50.0		95.2	61-141			

Matrix Spike Dup (2519045-MSD1)					Source: E505043-12		Prepared: 05/06/25 Analyzed: 05/06/25		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156	1.59	20	
Surrogate: n-Nonane	49.6		50.0		99.2	61-141			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/12/2025 10:53:44AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2519075-BLK1)					Prepared: 05/07/25 Analyzed: 05/07/25				
Chloride	ND	20.0							
LCS (2519075-BS1)					Prepared: 05/07/25 Analyzed: 05/07/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2519075-MS1)					Source: E505078-01		Prepared: 05/07/25 Analyzed: 05/07/25		
Chloride	256	20.0	250	ND	103	80-120			
Matrix Spike Dup (2519075-MSD1)					Source: E505078-01		Prepared: 05/07/25 Analyzed: 05/07/25		
Chloride	257	20.0	250	ND	103	80-120	0.164	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc.	Project Name:	Jackson Disposal 50571	
3101 Boyd Drive	Project Number:	25013-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/12/25 10:53

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Page 1 of 1

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: <u>Jonah Vertel</u>				Company: <u>Jonah</u>				Lab WO#		Job Number		1D		2D		3D		Std	
Project Name: <u>Jackson Disposal 36571</u>				Address: <u>on file</u>				E500047		25013-0001									
Project Manager: <u>Chance Dixon</u>				City, State, Zip: <u>1</u>															
Address: <u>on file</u>				Phone: <u>1</u>															
City, State, Zip: <u>1</u>				Email: <u>1</u>															
Phone: <u>1</u>				Miscellaneous:															
Email: <u>1</u>																			

Sample Information										Analysis and Method										EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	RGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Calion/Anion Pkg	SDWA	CWA	RCRA				
10:20	5/3	Soil	1	BH25-01 3'		1																
10:30				BH25-01 4'		2																
9:10				BH25-02 0'		3																
9:25				BH25-02 2'		4																
9:45				BH25-02 0'		5																
9:50				BH25-04 2'		6																
9:55				BH25-05 0'		7																
10:05				BH25-05 2'		8																

Additional Instructions: CC: Chance Dixon

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Andrew Lichner

Relinquished by: (Signature) <u>Andrew Lichner</u>	Date <u>5/5</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>5-5-25</u>	Time <u>1000</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>5-5-25</u>	Time <u>1430</u>	Received by: (Signature) <u>Morissa Gonzales</u>	Date <u>5-5-25</u>	Time <u>1430</u>
Relinquished by: (Signature) <u>Morissa Gonzales</u>	Date <u>5-5-25</u>	Time <u>1610</u>	Received by: (Signature) <u>John H.</u>	Date <u>5-5-25</u>	Time <u>1610</u>
Relinquished by: (Signature) <u>John H.</u>	Date <u>5-5-25</u>	Time <u>2230</u>	Received by: (Signature) <u>Keith Mar</u>	Date <u>5-6-25</u>	Time <u>800</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Envirotech Analytical Laboratory

Printed: 5/6/2025 9:06:41AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	05/06/25 08:00	Work Order ID:	E505047
Phone:	(575) 748-0176	Date Logged In:	05/05/25 16:11	Logged In By:	Noe Soto
Email:	cdixon@vertexresource.com	Due Date:	05/12/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

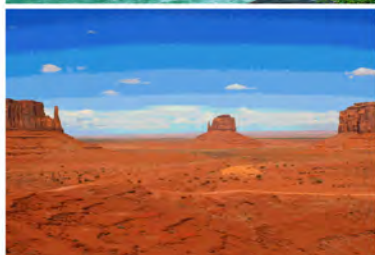
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Chance Dixon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Jackson Disposal Lin Inc # ends
50571

Work Order: E505079

Job Number: 25013-0001

Received: 5/7/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/13/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/13/25



Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: Jackson Disposal Lin Inc # ends 50571
Workorder: E505079
Date Received: 5/7/2025 8:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/7/2025 8:00:00AM, under the Project Name: Jackson Disposal Lin Inc # ends 50571.

The analytical test results summarized in this report with the Project Name: Jackson Disposal Lin Inc # ends 50571 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
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Client Representative
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Lin Inc # ends 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 05/13/25 16:25
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH25-06 at 0.5' bgs	E505079-01A	Soil	05/06/25	05/07/25	Glass Jar, 4 oz.
BH25-06 at 2' bgs	E505079-02A	Soil	05/06/25	05/07/25	Glass Jar, 4 oz.



Sample Data

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

Project Name: Jackson Disposal Lin Inc # ends 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/13/2025 4:25:14PM

BH25-06 at 0.5' bgs

E505079-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2519095	
Benzene	ND	0.0250	1	05/08/25	05/10/25	
Ethylbenzene	ND	0.0250	1	05/08/25	05/10/25	
Toluene	ND	0.0250	1	05/08/25	05/10/25	
o-Xylene	ND	0.0250	1	05/08/25	05/10/25	
p,m-Xylene	ND	0.0500	1	05/08/25	05/10/25	
Total Xylenes	ND	0.0250	1	05/08/25	05/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	05/08/25	05/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2519095	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/25	05/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.7 %	70-130	05/08/25	05/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2519124	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/08/25	05/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/08/25	05/10/25	
<i>Surrogate: n-Nonane</i>		97.4 %	61-141	05/08/25	05/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2519158	
Chloride	ND	20.0	1	05/09/25	05/12/25	



Sample Data

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

Project Name: Jackson Disposal Lin Inc # ends 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/13/2025 4:25:14PM

BH25-06 at 2' bgs

E505079-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2519095	
Benzene	ND	0.0250	1	05/08/25	05/10/25	
Ethylbenzene	ND	0.0250	1	05/08/25	05/10/25	
Toluene	ND	0.0250	1	05/08/25	05/10/25	
o-Xylene	ND	0.0250	1	05/08/25	05/10/25	
p,m-Xylene	ND	0.0500	1	05/08/25	05/10/25	
Total Xylenes	ND	0.0250	1	05/08/25	05/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	05/08/25	05/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2519095	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/25	05/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.5 %	70-130	05/08/25	05/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2519124	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/08/25	05/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/08/25	05/10/25	
<i>Surrogate: n-Nonane</i>		95.8 %	61-141	05/08/25	05/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2519158	
Chloride	27.1	20.0	1	05/09/25	05/12/25	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Lin Inc # ends 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/13/2025 4:25:14PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2519095-BLK1)

Prepared: 05/08/25 Analyzed: 05/10/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			

LCS (2519095-BS1)

Prepared: 05/08/25 Analyzed: 05/10/25

Benzene	5.72	0.0250	5.00		114	70-130			
Ethylbenzene	5.64	0.0250	5.00		113	70-130			
Toluene	5.70	0.0250	5.00		114	70-130			
o-Xylene	5.57	0.0250	5.00		111	70-130			
p,m-Xylene	11.3	0.0500	10.0		113	70-130			
Total Xylenes	16.9	0.0250	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	70-130			

Matrix Spike (2519095-MS1)

Source: E505080-01 Prepared: 05/08/25 Analyzed: 05/10/25

Benzene	5.89	0.0250	5.00	ND	118	70-130			
Ethylbenzene	5.79	0.0250	5.00	ND	116	70-130			
Toluene	5.87	0.0250	5.00	ND	117	70-130			
o-Xylene	5.70	0.0250	5.00	ND	114	70-130			
p,m-Xylene	11.6	0.0500	10.0	ND	116	70-130			
Total Xylenes	17.3	0.0250	15.0	ND	116	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.26		8.00		103	70-130			

Matrix Spike Dup (2519095-MSD1)

Source: E505080-01 Prepared: 05/08/25 Analyzed: 05/10/25

Benzene	5.78	0.0250	5.00	ND	116	70-130	1.93	27	
Ethylbenzene	5.67	0.0250	5.00	ND	113	70-130	2.06	26	
Toluene	5.74	0.0250	5.00	ND	115	70-130	2.11	20	
o-Xylene	5.58	0.0250	5.00	ND	112	70-130	2.21	25	
p,m-Xylene	11.4	0.0500	10.0	ND	114	70-130	2.07	23	
Total Xylenes	17.0	0.0250	15.0	ND	113	70-130	2.12	26	
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Lin Inc # ends 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/13/2025 4:25:14PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2519095-BLK1)					Prepared: 05/08/25 Analyzed: 05/10/25				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.7	70-130			
LCS (2519095-BS2)					Prepared: 05/08/25 Analyzed: 05/10/25				
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			
Matrix Spike (2519095-MS2)					Source: E505080-01		Prepared: 05/08/25 Analyzed: 05/10/25		
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.4	70-130			
Matrix Spike Dup (2519095-MSD2)					Source: E505080-01		Prepared: 05/08/25 Analyzed: 05/10/25		
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.3	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Lin Inc # ends 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/13/2025 4:25:14PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2519124-BLK1)					Prepared: 05/08/25 Analyzed: 05/09/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.6		50.0		97.2	61-141			

LCS (2519124-BS1)					Prepared: 05/08/25 Analyzed: 05/09/25				
Diesel Range Organics (C10-C28)	263	25.0	250		105	66-144			
Surrogate: n-Nonane	48.1		50.0		96.2	61-141			

Matrix Spike (2519124-MS1)					Source: E505077-03		Prepared: 05/08/25 Analyzed: 05/09/25		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	56-156			
Surrogate: n-Nonane	48.0		50.0		96.1	61-141			

Matrix Spike Dup (2519124-MSD1)					Source: E505077-03		Prepared: 05/08/25 Analyzed: 05/09/25		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	107	56-156	0.112	20	
Surrogate: n-Nonane	48.5		50.0		97.1	61-141			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Lin Inc # ends 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/13/2025 4:25:14PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2519158-BLK1)					Prepared: 05/09/25 Analyzed: 05/12/25				
Chloride	ND	20.0							
LCS (2519158-BS1)					Prepared: 05/09/25 Analyzed: 05/12/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2519158-MS1)					Source: E505073-03		Prepared: 05/09/25 Analyzed: 05/12/25		
Chloride	259	20.0	250	ND	104	80-120			
Matrix Spike Dup (2519158-MSD1)					Source: E505073-03		Prepared: 05/09/25 Analyzed: 05/12/25		
Chloride	259	20.0	250	ND	104	80-120	0.0725	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc.	Project Name:	Jackson Disposal Lin Inc # ends 50571	
3101 Boyd Drive	Project Number:	25013-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/13/25 16:25

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: Vertex Resource Group					Bill To					Lab Use Only					TAT				EPA Program					
Project: Jackson Disposal Line Inc # ends 50571					Attention: Jonah Energy					Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Chance Dixon					Address: 370 17th St					E505079		25013-0001						X						
Address: 3101 Boyd Dr.					City, State, Zip Denver, Co 80202					Analysis and Method												RCRA		
City, State, Zip Carlsbad, NM 88220					Phone: 720-577-1000					TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX	State					
Phone: 575-988-1472					Email:														NM	CO	UT	AZ	TX	
Email: cdixon@vertexresource.com					25A-02314																			
Report due by:																				Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																			
945	05.06.25	Soil	1	BH25-06 at 0.5' bgs	1					X	X			X					43					
1005	05.06.25	Soil	1	BH25-06 at 2' bgs	2					X	X			X					4.0					
Additional Instructions: Direct Bill to Jonah Energy: ATTN: Leigh Kollath CC. Chance Dixon (cdixon@vertexresource.com) and Sharon Minnix (sminnix@vertexresource.com)										1 25A - 02314														
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.														
Sampled by: Sharon Minnix																								
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time	Lab Use Only														
Sharon Minnix					Marissa Gonzales			5-6-25	1550	Received on ice: (Y) N														
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time	T1 T2 T3														
Marissa Gonzales			5-6-25	1730	J.M.			5-6-25	1730															
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time	AVG Temp °C														
J.M.			5-6-25	2400	Cath Ma			5-7-25	800															
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																								

Envirotech Analytical Laboratory

Printed: 5/7/2025 1:22:22PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	05/07/25 08:00	Work Order ID:	E505079
Phone:	(575) 748-0176	Date Logged In:	05/07/25 08:36	Logged In By:	Caitlin Mars
Email:	cdixon@vertexresource.com	Due Date:	05/13/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Chance Dixon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Jackson Disposal Line 50571

Work Order: E505162

Job Number: 25013-0001

Received: 5/15/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/5/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/5/25

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220



Project Name: Jackson Disposal Line 50571
Workorder: E505162
Date Received: 5/15/2025 8:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/15/2025 8:00:00AM, under the Project Name: Jackson Disposal Line 50571.

The analytical test results summarized in this report with the Project Name: Jackson Disposal Line 50571 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 06/05/25 12:19
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS25-09 @ 4'	E505162-01A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
BS25-10 @ 4'	E505162-02A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
BS25-11 @ 4'	E505162-03A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
BS25-12 @ 4'	E505162-04A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
BS25-13 @ 4'	E505162-05A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
BS25-14 @ 4'	E505162-06A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
BS25-15 @ 4'	E505162-07A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
BS25-16 @ 4'	E505162-08A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
BS25-17 @ 4'	E505162-09A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
BS25-18 @ 4'	E505162-10A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
BS25-19 @ 4'	E505162-11A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
BS25-20 @ 4'	E505162-12A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
BS25-22 @ 2.5'	E505162-13A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
BS25-24 @ 2.5'	E505162-14A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
Backfill Caliche 1	E505162-15A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
Backfill Caliche 2	E505162-16A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
Backfill Topsoil 1	E505162-17A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
Backfill Topsoil 2	E505162-18A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 6/5/2025 12:19:47PM
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BS25-09 @ 4'

E505162-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.9 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	05/15/25	05/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	3770	40.0	2	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

BS25-10 @ 4'

E505162-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.3 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	05/15/25	05/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	2120	40.0	2	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

BS25-11 @ 4'

E505162-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.9 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	05/15/25	05/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	2560	40.0	2	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

BS25-12 @ 4'

E505162-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.2 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	05/15/25	05/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	1920	20.0	1	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

BS25-13 @ 4'

E505162-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520090
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520090
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.0 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520098
Diesel Range Organics (C10-C28)	358	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	203	50.0	1	05/15/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	05/15/25	05/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520129
Chloride	2200	20.0	1	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

BS25-14 @ 4'

E505162-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/15/25	
Toluene	ND	0.0250	1	05/15/25	05/15/25	
o-Xylene	ND	0.0250	1	05/15/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/15/25	05/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.9 %	70-130	05/15/25	05/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	05/15/25	05/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	748	20.0	1	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

BS25-15 @ 4'

E505162-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520090
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520090
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.0 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520098
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	05/15/25	05/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520129
Chloride	4650	40.0	2	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

BS25-16 @ 4'

E505162-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.5 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	05/15/25	05/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	107	20.0	1	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

BS25-17 @ 4'

E505162-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.8 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	05/15/25	05/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	540	20.0	1	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

BS25-18 @ 4'

E505162-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.0 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/15/25	05/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	435	20.0	1	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

BS25-19 @ 4'

E505162-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.1 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	05/15/25	05/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	161	20.0	1	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

BS25-20 @ 4'

E505162-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.6 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	05/15/25	05/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	252	20.0	1	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

BS25-22 @ 2.5'

E505162-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		80.2 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	05/15/25	05/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	236	20.0	1	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

BS25-24 @ 2.5'

E505162-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.0 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	05/15/25	05/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	313	20.0	1	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

Backfill Caliche 1

E505162-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.5 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	05/15/25	05/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	ND	20.0	1	05/16/25	05/16/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

Backfill Caliche 2

E505162-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.4 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	05/15/25	05/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	54.6	20.0	1	05/16/25	05/17/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

Backfill Topsoil 1

E505162-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2520090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.4 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2520098	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	05/15/25	05/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2520129	
Chloride	ND	20.0	1	05/16/25	05/17/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/5/2025 12:19:47PM

Backfill Topsoil 2

E505162-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: BA		Batch: 2520090
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: BA		Batch: 2520090
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %	70-130	05/15/25	05/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: HM		Batch: 2520098
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	05/15/25	05/16/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: IY		Batch: 2520129
Chloride	ND	20.0	1	05/16/25	05/17/25	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 6/5/2025 12:19:47PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2520090-BLK1)

Prepared: 05/15/25 Analyzed: 05/15/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			

LCS (2520090-BS1)

Prepared: 05/15/25 Analyzed: 05/15/25

Benzene	4.75	0.0250	5.00		95.1	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130			
Toluene	4.73	0.0250	5.00		94.5	70-130			
o-Xylene	4.70	0.0250	5.00		93.9	70-130			
p,m-Xylene	9.26	0.0500	10.0		92.6	70-130			
Total Xylenes	14.0	0.0250	15.0		93.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			

Matrix Spike (2520090-MS1)

Source: E505162-06

Prepared: 05/15/25 Analyzed: 05/15/25

Benzene	4.81	0.0250	5.00	ND	96.3	70-130			
Ethylbenzene	4.80	0.0250	5.00	ND	96.0	70-130			
Toluene	4.78	0.0250	5.00	ND	95.7	70-130			
o-Xylene	4.75	0.0250	5.00	ND	95.0	70-130			
p,m-Xylene	9.38	0.0500	10.0	ND	93.8	70-130			
Total Xylenes	14.1	0.0250	15.0	ND	94.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			

Matrix Spike Dup (2520090-MSD1)

Source: E505162-06

Prepared: 05/15/25 Analyzed: 05/15/25

Benzene	5.42	0.0250	5.00	ND	108	70-130	11.8	27	
Ethylbenzene	5.42	0.0250	5.00	ND	108	70-130	12.0	26	
Toluene	5.39	0.0250	5.00	ND	108	70-130	11.9	20	
o-Xylene	5.37	0.0250	5.00	ND	107	70-130	12.2	25	
p,m-Xylene	10.5	0.0500	10.0	ND	105	70-130	11.7	23	
Total Xylenes	15.9	0.0250	15.0	ND	106	70-130	11.9	26	
Surrogate: 4-Bromochlorobenzene-PID	8.13		8.00		102	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 6/5/2025 12:19:47PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2520090-BLK1) Prepared: 05/15/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

LCS (2520090-BS2) Prepared: 05/15/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.95		8.00		86.9	70-130			

Matrix Spike (2520090-MS2) Source: E505162-06 Prepared: 05/15/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.3	70-130			

Matrix Spike Dup (2520090-MSD2) Source: E505162-06 Prepared: 05/15/25 Analyzed: 05/16/25

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130	3.18	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		8.00		86.5	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 6/5/2025 12:19:47PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2520098-BLK1)

Prepared: 05/15/25 Analyzed: 05/15/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.8		50.0		104	61-141			

LCS (2520098-BS1)

Prepared: 05/15/25 Analyzed: 05/15/25

Diesel Range Organics (C10-C28)	271	25.0	250		109	66-144			
Surrogate: n-Nonane	50.1		50.0		100	61-141			

Matrix Spike (2520098-MS1)

Source: E505162-03

Prepared: 05/15/25 Analyzed: 05/15/25

Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	56-156			
Surrogate: n-Nonane	52.6		50.0		105	61-141			

Matrix Spike Dup (2520098-MSD1)

Source: E505162-03

Prepared: 05/15/25 Analyzed: 05/15/25

Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	56-156	2.87	20	
Surrogate: n-Nonane	50.8		50.0		102	61-141			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 6/5/2025 12:19:47PM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2520129-BLK1)					Prepared: 05/16/25 Analyzed: 05/16/25				
Chloride	ND	20.0							
LCS (2520129-BS1)					Prepared: 05/16/25 Analyzed: 05/16/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2520129-MS1)					Source: E505162-05		Prepared: 05/16/25 Analyzed: 05/16/25		
Chloride	2170	20.0	250	2200	NR	80-120			M4
Matrix Spike Dup (2520129-MSD1)					Source: E505162-05		Prepared: 05/16/25 Analyzed: 05/16/25		
Chloride	2440	20.0	250	2200	96.4	80-120	11.4	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc.	Project Name:	Jackson Disposal Line 50571	
3101 Boyd Drive	Project Number:	25013-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	06/05/25 12:19

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State							
Client: Vertex Resource (Bill to Jonah Energy)				Company: Jonah Energy		Lab WO#		1D 2D 3D Std				NM CO UT TX							
Project Name: Jackson Disposal Line 50571				Address: 83 Luman rd		E505102		250130001				x							
Project Manager: Chance Dixon				City, State, Zip: Pinedale, WY, 82923															
Address: 3101 Boyd Dr				Phone: 970-222-6263															
City, State, Zip: Carlsbad, NM, 88220				Email: leighann.kollath@jonahenergy.com															
Phone: 5759881472				Miscellaneous:															
Email: Cdixon@vertexresource.com																			
Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	ICLQ 1005 - TX	RCRA 8 Metals	BGBOC - NA	BGBOC - TX	SDWA	CWA	RCRA	
9:45	5.13.25	Soil	1	BS25-09 @ 4'		1	X	X	X		X								
9:52	5.13.25	Soil	1	BS25-10 @ 4'		2		X	X		X								
10:00	5.13.25	Soil	1	BS25-11 @ 4'		3		X	X		X								
10:09	5.13.25	Soil	1	BS25-12 @ 4'		4		X	X		X								
10:18	5.13.25	Soil	1	BS25-13 @ 4'		5		X	X		X								
10:26	5.13.25	Soil	1	BS25-14 @ 4'		6		X	X		X								
10:32	5.13.25	Soil	1	BS25-15 @ 4'		7		X	X		X								
10:40	5.13.25	Soil	1	BS25-16 @ 2.5'		8		X	X		X								
11:00	5.13.25	Soil	1	BS25-17 @ 2.5'		9		X	X		X								
11:11	5.13.25	Soil	1	BS25-18 @ 2.5'		10		X	X		X								
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Riley Arnold																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Envirotech Analytical Laboratory

Printed: 5/15/2025 9:44:17AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	05/15/25 08:00	Work Order ID:	E505162
Phone:	(575) 748-0176	Date Logged In:	05/14/25 15:31	Logged In By:	Caitlin Mars
Email:	cdixon@vertexresource.com	Due Date:	05/21/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Vertex Resource (Bill to Jonah Energy)				Company: Jonah Energy		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Jackson Disposal Line 50571				Address: 83 Luman rd		E505102	250130001				X	X						
Project Manager: Chance Dixon				City, State, Zip: Pinedale, WY, 82923														
Address: 3101 Boyd Dr				Phone: 970-222-6263														
City, State, Zip: Carlsbad, NM, 88220				Email: leighann.kollath@jonahenergy.com														
Phone: 5759881472				Miscellaneous:														
Email: Cdixon@vertexresource.com																		
Sample Information						Analysis and Method						EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride #0010	ICU 106-1x	ICU 106-1x	ICU 106-1x	ICU 106-1x	SDWA	CWA	RCRA
9:45	5.13.25	Soil	1	BS25-09 @ 4'		1	X	X	X		X							
9:52	5.13.25	Soil	1	BS25-10 @ 4'		2		X	X		X							
10:00	5.13.25	Soil	1	BS25-11 @ 4'		3		X	X		X							
10:09	5.13.25	Soil	1	BS25-12 @ 4'		4		X	X		X							
10:18	5.13.25	Soil	1	BS25-13 @ 4'		5		X	X		X							
10:26	5.13.25	Soil	1	BS25-14 @ 4'		6		X	X		X							
10:32	5.13.25	Soil	1	BS25-15 @ 4'		7		X	X		X							
10:40	5.13.25	Soil	1	BS25-16 @ 4'		8		X	X		X							
11:00	5.13.25	Soil	1	BS25-17 @ 4'		9		X	X		X							
11:11	5.13.25	Soil	1	BS25-18 @ 4'		10		X	X		X							
Additional Instructions:																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Riley Arnold																		
Relinquished by: (Signature) <i>Riley Arnold</i>				Date: 5/14/25		Time: 10:00		Received by: (Signature) <i>Michelle Gonzales</i>				Date: 5-14-25		Time: 1000		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.		
Relinquished by: (Signature) <i>Michelle Gonzales</i>				Date: 5/14/25		Time: 1700		Received by: (Signature) <i>Michelle Gonzales</i>				Date: 5.14.25		Time: 1700				
Relinquished by: (Signature) <i>John H.</i>				Date: 5.14.25		Time: 2300		Received by: (Signature) <i>Michelle Gonzales</i>				Date: 5.15.25		Time: 800				
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time				
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only		
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Received on ice: (Y) N		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



Chain of Custody

Page 2 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State								
Client: Vertex Resource (Bill to Jonah Energy)				Company: <u>Jonah Energy</u>		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX					
Project Name: <u>Jackson Disposal Line 50571</u>				Address: <u>83 Luman rd</u>		<u>E505162</u>	<u>25013-0001</u>				X	X								
Project Manager: <u>Chance Dixon</u>				City, State, Zip: <u>Pinedale, WY, 82923</u>																
Address: <u>3101 Boyd Dr</u>				Phone: <u>970-222-6263</u>																
City, State, Zip: <u>Carlsbad, NM, 88220</u>				Email: <u>leighann.kollath@jonahenergy.com</u>																
Phone: <u>5759881472</u>				Miscellaneous:																
Email: <u>Cdixon@vertexresource.com</u>																				
Sample Information										Analysis and Method				EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRD/GRD by 8015	GRD/DRD by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	ICED 1005 TX	ICED 8 Metals	ICED 1005 TX	ICED 1005 TX	SDWA	CWA	RCRA	
11:25	5.13.25	Soil	1	B525-19 @ <u>2.5' 4'</u>			11	X	X	X		X								
12:00	5.13.25	Soil	1	B525-20 @ <u>2.5' 4'</u>			12	X	X	X		X								
12:27	5.13.25	Soil	1	B525-22 @ 2.5'			13	X	X	X		X								
1:07	5.13.25	Soil	1	B525-24 @ 2.5'			14	X	X	X		X								
1:37	5.13.25	Soil	1	Backfill Caliche 1			15	X	X	X		X								
1:50	5.13.25	Soil	1	Backfill Caliche 2			16	X	X	X		X								
2:03	5.13.25	Soil	1	Backfill Topsoil 1			17	X	X	X		X								
2:10	5.13.25	Soil	1	Backfill Topsoil 2			18	X	X	X		X								
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Sampled by: <u>Riley Arnold</u>																				
Relinquished by: (Signature) <u>[Signature]</u>				Date: <u>5/14/25</u>		Time: <u>1000</u>		Received by: (Signature) <u>Michelle Gonzales</u>				Date: <u>5.14.25</u>		Time: <u>1000</u>		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.				
Relinquished by: (Signature) <u>Michelle Gonzales</u>				Date: <u>5.14.25</u>		Time: <u>1700</u>		Received by: (Signature) <u>[Signature]</u>				Date: <u>5.14.25</u>		Time: <u>1700</u>						
Relinquished by: (Signature) <u>[Signature]</u>				Date: <u>5.14.25</u>		Time: <u>2300</u>		Received by: (Signature) <u>Caitlynn</u>				Date: <u>5.15.25</u>		Time: <u>800</u>						
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Date:		Time:						
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Date:		Time:		Lab Use Only				
																Received on ice: <u>Y</u> N				
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sl</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other																				
Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - VOA																				
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Report to:
Chance Dixon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Jackson Disposal Line 50571

Work Order: E505179

Job Number: 25013-0001

Received: 5/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/22/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/22/25



Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: Jackson Disposal Line 50571
Workorder: E505179
Date Received: 5/16/2025 8:30:22AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/16/2025 8:30:22AM, under the Project Name: Jackson Disposal Line 50571.

The analytical test results summarized in this report with the Project Name: Jackson Disposal Line 50571 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 05/22/25 07:26
--	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS25-01 @ 4'	E505179-01A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
BS25-02 @ 4'	E505179-02A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
BS25-03 @ 4'	E505179-03A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
BS25-04 @ 4'	E505179-04A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
BS25-05 @ 4'	E505179-05A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
BS25-06 @ 4'	E505179-06A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
BS25-07 @ 4'	E505179-07A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
BS25-08 @ 4'	E505179-08A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
WS25-01 @ 0-4'	E505179-09A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
WS25-03 @ 0-4'	E505179-10A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
WS25-04 @ 0-4'	E505179-11A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
WS25-05 @ 0-4'	E505179-12A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
WS25-06 @ 0-4'	E505179-13A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/22/2025 7:26:49AM
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BS25-01 @ 4'

E505179-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2521012	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/19/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	05/19/25	05/19/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2521008	
Chloride	1580	20.0	1	05/19/25	05/19/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/22/2025 7:26:49AM

BS25-02 @ 4'

E505179-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521012	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/19/25	
<i>Surrogate: n-Nonane</i>						
	115 %	61-141		05/19/25	05/19/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521008	
Chloride	2050	20.0	1	05/19/25	05/19/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/22/2025 7:26:49AM

BS25-03 @ 4'

E505179-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521012	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/19/25	
<i>Surrogate: n-Nonane</i>						
	111 %	61-141		05/19/25	05/19/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521008	
Chloride	5290	40.0	2	05/19/25	05/19/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/22/2025 7:26:49AM

BS25-04 @ 4'

E505179-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521012	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/19/25	
<i>Surrogate: n-Nonane</i>						
		115 %	61-141	05/19/25	05/19/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521008	
Chloride	3250	40.0	2	05/19/25	05/19/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/22/2025 7:26:49AM

BS25-05 @ 4'

E505179-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521012	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/19/25	
<i>Surrogate: n-Nonane</i>						
	117 %	61-141		05/19/25	05/19/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521008	
Chloride	1530	20.0	1	05/19/25	05/19/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/22/2025 7:26:49AM
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BS25-06 @ 4'

E505179-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2521012	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
Surrogate: n-Nonane	117 %	61-141		05/19/25	05/20/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2521008	
Chloride	1480	20.0	1	05/19/25	05/19/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/22/2025 7:26:49AM

BS25-07 @ 4'

E505179-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521012	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
	117 %	61-141		05/19/25	05/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521008	
Chloride	3700	40.0	2	05/19/25	05/19/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/22/2025 7:26:49AM

BS25-08 @ 4'

E505179-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521012	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		116 %	61-141	05/19/25	05/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521008	
Chloride	1900	20.0	1	05/19/25	05/19/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/22/2025 7:26:49AM

WS25-01 @ 0-4'

E505179-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521012	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		113 %	61-141	05/19/25	05/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521008	
Chloride	433	20.0	1	05/19/25	05/19/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/22/2025 7:26:49AM

WS25-03 @ 0-4'

E505179-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.7 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521012	
Diesel Range Organics (C10-C28)	33.2	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
	104 %	61-141		05/19/25	05/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521008	
Chloride	190	20.0	1	05/19/25	05/19/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/22/2025 7:26:49AM

WS25-04 @ 0-4'

E505179-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521012	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		115 %	61-141	05/19/25	05/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521008	
Chloride	165	20.0	1	05/19/25	05/19/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/22/2025 7:26:49AM

WS25-05 @ 0-4'

E505179-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521012	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
	117 %	61-141		05/19/25	05/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521008	
Chloride	104	20.0	1	05/19/25	05/19/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/22/2025 7:26:49AM

WS25-06 @ 0-4'

E505179-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521012	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		113 %	61-141	05/19/25	05/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521008	
Chloride	195	20.0	1	05/19/25	05/19/25	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/22/2025 7:26:49AM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2520114-BLK1)

Prepared: 05/16/25 Analyzed: 05/19/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

LCS (2520114-BS1)

Prepared: 05/16/25 Analyzed: 05/19/25

Benzene	5.30	0.0250	5.00		106	70-130			
Ethylbenzene	5.31	0.0250	5.00		106	70-130			
Toluene	5.31	0.0250	5.00		106	70-130			
o-Xylene	5.28	0.0250	5.00		106	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.1	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.9	70-130			

Matrix Spike (2520114-MS1)

Source: E505174-05

Prepared: 05/16/25 Analyzed: 05/19/25

Benzene	4.92	0.0250	5.00	ND	98.3	70-130			
Ethylbenzene	4.92	0.0250	5.00	ND	98.3	70-130			
Toluene	4.91	0.0250	5.00	ND	98.2	70-130			
o-Xylene	4.94	0.0250	5.00	ND	98.9	70-130			
p,m-Xylene	9.99	0.0500	10.0	0.0505	99.4	70-130			
Total Xylenes	14.9	0.0250	15.0	0.0505	99.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.26		8.00		103	70-130			

Matrix Spike Dup (2520114-MSD1)

Source: E505174-05

Prepared: 05/16/25 Analyzed: 05/19/25

Benzene	5.45	0.0250	5.00	ND	109	70-130	10.2	27	
Ethylbenzene	5.47	0.0250	5.00	ND	109	70-130	10.7	26	
Toluene	5.44	0.0250	5.00	ND	109	70-130	10.4	20	
o-Xylene	5.43	0.0250	5.00	ND	109	70-130	9.31	25	
p,m-Xylene	11.1	0.0500	10.0	0.0505	110	70-130	10.5	23	
Total Xylenes	16.5	0.0250	15.0	0.0505	110	70-130	10.1	26	
Surrogate: 4-Bromochlorobenzene-PID	8.25		8.00		103	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/22/2025 7:26:49AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2520114-BLK1)

Prepared: 05/16/25 Analyzed: 05/19/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.50		8.00		106	70-130			

LCS (2520114-BS2)

Prepared: 05/16/25 Analyzed: 05/19/25

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		99.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.65		8.00		108	70-130			

Matrix Spike (2520114-MS2)

Source: E505174-05

Prepared: 05/16/25 Analyzed: 05/19/25

Gasoline Range Organics (C6-C10)	58.2	20.0	50.0	ND	116	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.85		8.00		111	70-130			

Matrix Spike Dup (2520114-MSD2)

Source: E505174-05

Prepared: 05/16/25 Analyzed: 05/19/25

Gasoline Range Organics (C6-C10)	56.0	20.0	50.0	ND	112	70-130	3.79	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.37		8.00		105	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/22/2025 7:26:49AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2521012-BLK1)					Prepared: 05/19/25 Analyzed: 05/19/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	65.5		50.0		131	61-141			

LCS (2521012-BS1)					Prepared: 05/19/25 Analyzed: 05/19/25				
Diesel Range Organics (C10-C28)	294	25.0	250		118	66-144			
Surrogate: n-Nonane	55.2		50.0		110	61-141			

Matrix Spike (2521012-MS1)					Source: E505179-01		Prepared: 05/19/25 Analyzed: 05/19/25		
Diesel Range Organics (C10-C28)	340	25.0	250	ND	136	56-156			
Surrogate: n-Nonane	62.9		50.0		126	61-141			

Matrix Spike Dup (2521012-MSD1)					Source: E505179-01		Prepared: 05/19/25 Analyzed: 05/19/25		
Diesel Range Organics (C10-C28)	311	25.0	250	ND	124	56-156	8.76	20	
Surrogate: n-Nonane	56.3		50.0		113	61-141			



QC Summary Data

Vertex Resource Services Inc.	Project Name:	Jackson Disposal Line 50571	Reported:
3101 Boyd Drive	Project Number:	25013-0001	
Carlsbad NM, 88220	Project Manager:	Chance Dixon	5/22/2025 7:26:49AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2521008-BLK1)					Prepared: 05/19/25 Analyzed: 05/19/25				
Chloride	ND	20.0							
LCS (2521008-BS1)					Prepared: 05/19/25 Analyzed: 05/19/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2521008-MS1)					Source: E505179-01		Prepared: 05/19/25 Analyzed: 05/19/25		
Chloride	1810	20.0	250	1580	92.0	80-120			
Matrix Spike Dup (2521008-MSD1)					Source: E505179-01		Prepared: 05/19/25 Analyzed: 05/19/25		
Chloride	1830	20.0	250	1580	100	80-120	1.12	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc.	Project Name:	Jackson Disposal Line 50571	
3101 Boyd Drive	Project Number:	25013-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/22/25 07:26

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Page 1 of 2

Client Information				Invoice Information				Lab Use Only				TAT				State					
Client: Vertex Resource (Bill to Jonah Energy)				Company: Jonah Energy				Lab WO# E505179				Job Number 2503-000				1D 2D 3D Std					
Project Name: Jackson Disposal Line 50571				Address: 83 Luman Rd												NM CO UT TX					
Project Manager: Chance Dixon				City, State, Zip: Pinedale, WY, 82923												x					
Address: 3101 Boyd Dr				Phone: 970-222-6263																	
City, State, Zip: Carlsbad, NM, 88220				Email: leighann.kollath@jonahenergy.com																	
Phone: 5759881472				Miscellaneous:																	
Email: Cdixon@vertexresource.com																					
Sample Information								Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number		DRO/ORO by 8015	GRO/ORO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	ICLQ 1005 - TX	RCRA 8 Metals	RCRA 8 Metals	RCRA 8 Metals	RCRA 8 Metals	SDWA	CWA	RCRA	
9:40	5.14.25	Soil	1	BS25-01 @ 4'		1	X	X	X			X									
9:44	5.14.25	Soil	1	BS25-02 @ 4'		2		X	X			X									
9:50	5.14.25	Soil	1	BS25-03 @ 4'		3		X	X			X									
9:53	5.14.25	Soil	1	BS25-04 @ 4'		4		X	X			X									
10:00	5.14.25	Soil	1	BS25-05 @ 4'		5		X	X			X									
10:04	5.14.25	Soil	1	BS25-06 @ 4'		6		X	X			X									
1:22	5.14.25	Soil	1	BS25-07 @ 4'		7		X	X			X									
1:27	5.14.25	Soil	1	BS25-08 @ 4'		8		X	X			X									
11:00	5.14.25	Soil	1	WS25-01 @ 0-4'		9		X	X			X									
11:20	5.14.25	Soil	1	WS25-03 @ 0-4'		10		X	X			X									
Additional Instructions:																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																					
Sampled by: Riley Arnold																					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice:									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		S/N									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																					
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					

Envirotech Analytical Laboratory

Printed: 5/16/2025 1:38:45PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	05/16/25 08:30	Work Order ID:	E505179
Phone:	(575) 748-0176	Date Logged In:	05/15/25 15:02	Logged In By:	Caitlin Mars
Email:	cdixon@vertexresource.com	Due Date:	05/22/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Comments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Chance Dixon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Jackson Disposal Line 50571

Work Order: E505198

Job Number: 25013-0001

Received: 5/19/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/23/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/23/25



Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: Jackson Disposal Line 50571
Workorder: E505198
Date Received: 5/19/2025 7:30:17AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/19/2025 7:30:17AM, under the Project Name: Jackson Disposal Line 50571.

The analytical test results summarized in this report with the Project Name: Jackson Disposal Line 50571 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 05/23/25 10:51
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WS25-08 @ 0-2.5'	E505198-01A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
WS25-09 @ 0-2.5'	E505198-02A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BS25-21 @ 2.5'	E505198-03A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BS25-23 @ 2.5'	E505198-04A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BS25-25 @ 2.5'	E505198-05A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BS25-26 @ 2.5'	E505198-06A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
BS25-27 @ 2.5'	E505198-07A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/23/2025 10:51:25AM
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WS25-08 @ 0-2.5'

E505198-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>93.5 %</i>	<i>70-130</i>		<i>05/19/25</i>	<i>05/20/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>94.2 %</i>	<i>70-130</i>		<i>05/19/25</i>	<i>05/20/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2521034	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/20/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/20/25	05/21/25	
<i>Surrogate: n-Nonane</i>	<i>104 %</i>	<i>61-141</i>		<i>05/20/25</i>	<i>05/21/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2521017	
Chloride	308	20.0	1	05/19/25	05/20/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/23/2025 10:51:25AM

WS25-09 @ 0-2.5'

E505198-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2521034	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/20/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/20/25	05/21/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		05/20/25	05/21/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521017	
Chloride	49.1	20.0	1	05/19/25	05/22/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/23/2025 10:51:25AM

BS25-21 @ 2.5'

E505198-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.9 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.2 %	70-130	05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2521034	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/20/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/20/25	05/21/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	05/20/25	05/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2521017	
Chloride	239	20.0	1	05/19/25	05/22/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/23/2025 10:51:25AM

BS25-23 @ 2.5'

E505198-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2521034	
Diesel Range Organics (C10-C28)	98.9	25.0	1	05/20/25	05/21/25	
Oil Range Organics (C28-C36)	211	50.0	1	05/20/25	05/21/25	
<i>Surrogate: n-Nonane</i>						
	112 %	61-141		05/20/25	05/21/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521017	
Chloride	232	20.0	1	05/19/25	05/22/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/23/2025 10:51:25AM

BS25-25 @ 2.5'

E505198-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2521034	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/20/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/20/25	05/21/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		05/20/25	05/21/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2521017	
Chloride	245	20.0	1	05/19/25	05/22/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/23/2025 10:51:25AM
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BS25-26 @ 2.5'

E505198-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.1 %	70-130		05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2521034	
Diesel Range Organics (C10-C28)	105	25.0	1	05/20/25	05/21/25	
Oil Range Organics (C28-C36)	230	50.0	1	05/20/25	05/21/25	
Surrogate: n-Nonane	105 %	61-141		05/20/25	05/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2521017	
Chloride	234	20.0	1	05/19/25	05/22/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/23/2025 10:51:25AM
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BS25-27 @ 2.5'

E505198-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID	94.4 %	70-130		05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2521005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.9 %	70-130		05/19/25	05/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2521034	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/20/25	05/21/25	
Oil Range Organics (C28-C36)	62.0	50.0	1	05/20/25	05/21/25	
Surrogate: n-Nonane	107 %	61-141		05/20/25	05/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2521017	
Chloride	236	20.0	1	05/19/25	05/22/25	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/23/2025 10:51:25AM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2521005-BLK1) Prepared: 05/19/25 Analyzed: 05/20/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.11		8.00		88.8	70-130			

LCS (2521005-BS1) Prepared: 05/19/25 Analyzed: 05/20/25

Benzene	5.72	0.0250	5.00		114	70-130			
Ethylbenzene	5.58	0.0250	5.00		112	70-130			
Toluene	5.67	0.0250	5.00		113	70-130			
o-Xylene	5.42	0.0250	5.00		108	70-130			
p,m-Xylene	11.2	0.0500	10.0		112	70-130			
Total Xylenes	16.6	0.0250	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.29		8.00		91.1	70-130			

Matrix Spike (2521005-MS1) Source: E505198-05 Prepared: 05/19/25 Analyzed: 05/20/25

Benzene	5.47	0.0250	5.00	ND	109	70-130			
Ethylbenzene	5.35	0.0250	5.00	ND	107	70-130			
Toluene	5.42	0.0250	5.00	ND	108	70-130			
o-Xylene	5.20	0.0250	5.00	ND	104	70-130			
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130			
Total Xylenes	16.0	0.0250	15.0	ND	106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		92.9	70-130			

Matrix Spike Dup (2521005-MSD1) Source: E505198-05 Prepared: 05/19/25 Analyzed: 05/20/25

Benzene	5.37	0.0250	5.00	ND	107	70-130	1.87	27	
Ethylbenzene	5.25	0.0250	5.00	ND	105	70-130	1.87	26	
Toluene	5.32	0.0250	5.00	ND	106	70-130	1.94	20	
o-Xylene	5.10	0.0250	5.00	ND	102	70-130	2.00	25	
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130	1.95	23	
Total Xylenes	15.7	0.0250	15.0	ND	104	70-130	1.97	26	
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/23/2025 10:51:25AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2521005-BLK1) Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			

LCS (2521005-BS2) Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	42.9	20.0				70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike (2521005-MS2) Source: E505198-05 Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	46.4	20.0		ND		70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.7	70-130			

Matrix Spike Dup (2521005-MSD2) Source: E505198-05 Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	49.4	20.0		ND		70-130	6.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/23/2025 10:51:25AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2521034-BLK1)					Prepared: 05/20/25 Analyzed: 05/21/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.2		50.0		118	61-141			

LCS (2521034-BS1)					Prepared: 05/20/25 Analyzed: 05/21/25				
Diesel Range Organics (C10-C28)	307	25.0	250		123	66-144			
Surrogate: n-Nonane	54.8		50.0		110	61-141			

Matrix Spike (2521034-MS1)					Source: E505198-03		Prepared: 05/20/25 Analyzed: 05/21/25		
Diesel Range Organics (C10-C28)	306	25.0	250	ND	123	56-156			
Surrogate: n-Nonane	53.8		50.0		108	61-141			

Matrix Spike Dup (2521034-MSD1)					Source: E505198-03		Prepared: 05/20/25 Analyzed: 05/21/25		
Diesel Range Organics (C10-C28)	312	25.0	250	ND	125	56-156	1.92	20	
Surrogate: n-Nonane	54.7		50.0		109	61-141			



QC Summary Data

Vertex Resource Services Inc.	Project Name:	Jackson Disposal Line 50571	Reported:
3101 Boyd Drive	Project Number:	25013-0001	
Carlsbad NM, 88220	Project Manager:	Chance Dixon	5/23/2025 10:51:25AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2521017-BLK1)					Prepared: 05/19/25 Analyzed: 05/19/25				
Chloride	ND	20.0							
LCS (2521017-BS1)					Prepared: 05/19/25 Analyzed: 05/19/25				
Chloride	264	20.0	250		106	90-110			
Matrix Spike (2521017-MS1)					Source: E505196-03		Prepared: 05/19/25 Analyzed: 05/19/25		
Chloride	3860	40.0	250	3700	67.3	80-120			M4
Matrix Spike Dup (2521017-MSD1)					Source: E505196-03		Prepared: 05/19/25 Analyzed: 05/19/25		
Chloride	3640	40.0	250	3700	NR	80-120	5.97	20	M4

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc.	Project Name:	Jackson Disposal Line 50571	
3101 Boyd Drive	Project Number:	25013-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/23/25 10:51

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





Chain of Custody

Page 1 of 1

Client Information					Invoice Information			Lab Use Only				TAT				State																		
Client: Vertex Resource (Bill to Jonah Energy)					Company: Jonah Energy			Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX															
Project Name: Jackson Disposal Line 50571					Address: 83 Luman rd			E505198		250130001					X	X																		
Project Manager: Chance Dixon					City, State, Zip: Pinedale, WY, 82923																													
Address: 3101 Boyd Dr					Phone: 970-222-6263																													
City, State, Zip: Carlsbad, NM, 88220					Email: leighann.kollath@jonahenergy.com																													
Phone: 5759881472					Miscellaneous:																													
Email: Cdixon@vertexresource.com																																		
Sample Information					Analysis and Method												EPA Program																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCED 1005 - TX	RCRA 8 Metals	BEDOC - NM	BEDOC - TX	SDWA	CWA	RCRA																
	5.15.25	Soil	1	WS25-02 @ 0-4'	CW	1	X	X	X		X																							
	5.15.25	Soil	1	WS25-07 @ 0-2.5'		1		X	X		X																							
	5.15.25	Soil	1	WS25-08 @ 0-2.5'		1		X	X		X								3.6															
	5.15.25	Soil	1	WS25-09 @ 0-2.5'		2		X	X		X								3.2															
	5.15.25	Soil	1	BS25-21 @ 2.5'		3		X	X		X								3.1															
	5.15.25	Soil	1	BS25-23 @ 2.5'		4		X	X		X								2.8															
	5.15.25	Soil	1	BS25-25 @ 2.5'		5		X	X		X								3.4															
	5.15.25	Soil	1	BS25-26 @ 2.5'		6		X	X		X								3.3															
	5.15.25	Soil	1	BS25-27 @ 2.5'		7		X	X		X								3.0															
Additional Instructions:																																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																																		
Sampled by: Riley Arnold																																		
Relinquished by: (Signature) <i>Riley Arnold</i>					Date: 5-16-25					Time: 1100					Received by: (Signature) <i>Michelle Gonzales</i>					Date: 5-16-25					Time: 1100					Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.				
Relinquished by: (Signature) <i>Michelle Gonzales</i>					Date: 5-17-25					Time: 0230					Received by: (Signature) <i>Carly Mar</i>					Date: 5-19-25					Time: 730									
Relinquished by: (Signature)					Date					Time					Received by: (Signature)					Date					Time									
Relinquished by: (Signature)					Date					Time					Received by: (Signature)					Date					Time									
Relinquished by: (Signature)					Date					Time					Received by: (Signature)					Date					Time					Lab Use Only				
Relinquished by: (Signature)					Date					Time					Received by: (Signature)					Date					Time					Received on ice: <i>Y</i> /N				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																		

Envirotech Analytical Laboratory

Printed: 5/19/2025 10:15:43AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	05/19/25 07:30	Work Order ID:	E505198
Phone:	(575) 748-0176	Date Logged In:	05/16/25 16:06	Logged In By:	Caitlin Mars
Email:	cdixon@vertexresource.com	Due Date:	05/23/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? No
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client InstructionComments/Resolution

Time sampled not provided on COC.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Chance Dixon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Jackson Disposal Line 50571

Work Order: E505234

Job Number: 25013-0001

Received: 5/21/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/28/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/28/25



Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: Jackson Disposal Line 50571
Workorder: E505234
Date Received: 5/21/2025 8:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/21/2025 8:00:00AM, under the Project Name: Jackson Disposal Line 50571.

The analytical test results summarized in this report with the Project Name: Jackson Disposal Line 50571 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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rainaschwanz@envirotech-inc.com

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Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 05/28/25 10:12
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WS25-02 0-4'	E505234-01A	Soil	05/19/25	05/21/25	Glass Jar, 4 oz.
WS25-07 0-4'	E505234-02A	Soil	05/19/25	05/21/25	Glass Jar, 4 oz.
WS25-10 0-4'	E505234-03A	Soil	05/19/25	05/21/25	Glass Jar, 4 oz.
WS25-11 2.5-4'	E505234-04A	Soil	05/19/25	05/21/25	Glass Jar, 4 oz.



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/28/2025 10:12:18AM

WS25-02 0-4'

E505234-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2521088	
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2521088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		100 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2521077	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/27/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	05/21/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2521134	
Chloride	149	20.0	1	05/23/25	05/23/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/28/2025 10:12:18AM

WS25-07 0-4'

E505234-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2521088	
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2521088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2521077	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/27/25	
<i>Surrogate: n-Nonane</i>		116 %	61-141	05/21/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2521134	
Chloride	83.0	20.0	1	05/23/25	05/23/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/28/2025 10:12:18AM

WS25-10 0-4'

E505234-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2521088	
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2521088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2521077	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/27/25	
<i>Surrogate: n-Nonane</i>		115 %	61-141	05/21/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2521134	
Chloride	73.3	20.0	1	05/23/25	05/23/25	



Sample Data

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

Project Name: Jackson Disposal Line 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
5/28/2025 10:12:18AM

WS25-11 2.5-4'

E505234-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2521088	
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2521088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521077	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/27/25	
<i>Surrogate: n-Nonane</i>						
		111 %	61-141	05/21/25	05/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2521134	
Chloride	86.8	20.0	1	05/23/25	05/23/25	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/28/2025 10:12:18AM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2521088-BLK1)

Prepared: 05/21/25 Analyzed: 05/23/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.35		8.00		104	70-130			

LCS (2521088-BS1)

Prepared: 05/21/25 Analyzed: 05/23/25

Benzene	4.81	0.0250	5.00		96.3	70-130			
Ethylbenzene	4.76	0.0250	5.00		95.2	70-130			
Toluene	4.81	0.0250	5.00		96.2	70-130			
o-Xylene	4.68	0.0250	5.00		93.7	70-130			
p,m-Xylene	9.59	0.0500	10.0		95.9	70-130			
Total Xylenes	14.3	0.0250	15.0		95.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.65		8.00		108	70-130			

Matrix Spike (2521088-MS1)

Source: E505233-06

Prepared: 05/21/25 Analyzed: 05/23/25

Benzene	5.32	0.0250	5.00	ND	106	70-130			
Ethylbenzene	5.23	0.0250	5.00	ND	105	70-130			
Toluene	5.30	0.0250	5.00	ND	106	70-130			
o-Xylene	5.16	0.0250	5.00	ND	103	70-130			
p,m-Xylene	10.5	0.0500	10.0	ND	105	70-130			
Total Xylenes	15.7	0.0250	15.0	ND	104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.62		8.00		108	70-130			

Matrix Spike Dup (2521088-MSD1)

Source: E505233-06

Prepared: 05/21/25 Analyzed: 05/23/25

Benzene	5.55	0.0250	5.00	ND	111	70-130	4.31	27	
Ethylbenzene	5.47	0.0250	5.00	ND	109	70-130	4.41	26	
Toluene	5.54	0.0250	5.00	ND	111	70-130	4.38	20	
o-Xylene	5.40	0.0250	5.00	ND	108	70-130	4.43	25	
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130	4.42	23	
Total Xylenes	16.4	0.0250	15.0	ND	109	70-130	4.42	26	
Surrogate: 4-Bromochlorobenzene-PID	8.62		8.00		108	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/28/2025 10:12:18AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2521088-BLK1) Prepared: 05/21/25 Analyzed: 05/23/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			

LCS (2521088-BS2) Prepared: 05/21/25 Analyzed: 05/23/25

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.21		8.00		103	70-130			

Matrix Spike (2521088-MS2) Source: E505233-06 Prepared: 05/21/25 Analyzed: 05/23/25

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		8.00		103	70-130			

Matrix Spike Dup (2521088-MSD2) Source: E505233-06 Prepared: 05/21/25 Analyzed: 05/23/25

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	90.9	70-130	3.54	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.19		8.00		102	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal Line 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 5/28/2025 10:12:18AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2521077-BLK1)					Prepared: 05/21/25 Analyzed: 05/27/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.2		50.0		110	61-141			

LCS (2521077-BS1)					Prepared: 05/21/25 Analyzed: 05/27/25				
Diesel Range Organics (C10-C28)	291	25.0	250		116	66-144			
Surrogate: n-Nonane	51.3		50.0		103	61-141			

Matrix Spike (2521077-MS1)					Source: E505238-02		Prepared: 05/21/25 Analyzed: 05/27/25		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	56-156			
Surrogate: n-Nonane	55.5		50.0		111	61-141			

Matrix Spike Dup (2521077-MSD1)					Source: E505238-02		Prepared: 05/21/25 Analyzed: 05/27/25		
Diesel Range Organics (C10-C28)	308	25.0	250	ND	123	56-156	3.33	20	
Surrogate: n-Nonane	56.5		50.0		113	61-141			



QC Summary Data

Vertex Resource Services Inc.	Project Name:	Jackson Disposal Line 50571	Reported:
3101 Boyd Drive	Project Number:	25013-0001	
Carlsbad NM, 88220	Project Manager:	Chance Dixon	5/28/2025 10:12:18AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2521134-BLK1)					Prepared: 05/23/25 Analyzed: 05/23/25				
Chloride	ND	20.0							
LCS (2521134-BS1)					Prepared: 05/23/25 Analyzed: 05/23/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2521134-MS1)					Source: E505234-04		Prepared: 05/23/25 Analyzed: 05/23/25		
Chloride	345	20.0	250	86.8	103	80-120			
Matrix Spike Dup (2521134-MSD1)					Source: E505234-04		Prepared: 05/23/25 Analyzed: 05/23/25		
Chloride	335	20.0	250	86.8	99.2	80-120	2.87	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc.	Project Name:	Jackson Disposal Line 50571	
3101 Boyd Drive	Project Number:	25013-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/28/25 10:12

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Additional Instructions:

Envirotech Analytical Laboratory

Printed: 5/21/2025 9:26:12AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	05/21/25 08:00	Work Order ID:	E505234
Phone:	(575) 748-0176	Date Logged In:	05/20/25 15:22	Logged In By:	Caitlin Mars
Email:	cdixon@vertexresource.com	Due Date:	05/28/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

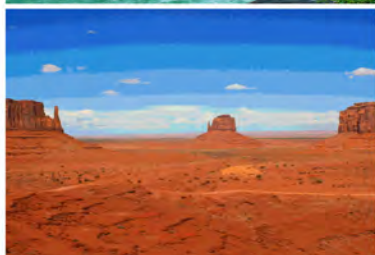
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Chance Dixon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Jackson Disposal 50571

Work Order: E506006

Job Number: 25013-0001

Received: 6/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/4/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/4/25

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220



Project Name: Jackson Disposal 50571
Workorder: E506006
Date Received: 6/3/2025 8:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/3/2025 8:00:00AM, under the Project Name: Jackson Disposal 50571.

The analytical test results summarized in this report with the Project Name: Jackson Disposal 50571 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 06/04/25 11:51
--	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS25-23 2.75'	E506006-01A	Soil	05/30/25	06/03/25	Glass Jar, 2 oz.
BS25-26 2.75'	E506006-02A	Soil	05/30/25	06/03/25	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 6/4/2025 11:51:14AM
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BS25-23 2.75'

E506006-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2523052	
Benzene	ND	0.0250	1	06/03/25	06/03/25	
Ethylbenzene	ND	0.0250	1	06/03/25	06/03/25	
Toluene	ND	0.0250	1	06/03/25	06/03/25	
o-Xylene	ND	0.0250	1	06/03/25	06/03/25	
p,m-Xylene	ND	0.0500	1	06/03/25	06/03/25	
Total Xylenes	ND	0.0250	1	06/03/25	06/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	06/03/25	06/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2523052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/25	06/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.9 %	70-130	06/03/25	06/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2523058	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/25	06/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/25	06/03/25	
<i>Surrogate: n-Nonane</i>		100 %	61-141	06/03/25	06/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2523056	
Chloride	42.2	20.0	1	06/03/25	06/03/25	



Sample Data

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

Project Name: Jackson Disposal 50571
Project Number: 25013-0001
Project Manager: Chance Dixon

Reported:
6/4/2025 11:51:14AM

BS25-26 2.75'

E506006-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2523052	
Benzene	ND	0.0250	1	06/03/25	06/03/25	
Ethylbenzene	ND	0.0250	1	06/03/25	06/03/25	
Toluene	ND	0.0250	1	06/03/25	06/03/25	
o-Xylene	ND	0.0250	1	06/03/25	06/03/25	
p,m-Xylene	ND	0.0500	1	06/03/25	06/03/25	
Total Xylenes	ND	0.0250	1	06/03/25	06/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	06/03/25	06/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2523052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/25	06/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.2 %	70-130	06/03/25	06/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2523058	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/25	06/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/25	06/03/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	06/03/25	06/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2523056	
Chloride	ND	20.0	1	06/03/25	06/03/25	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 6/4/2025 11:51:14AM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2523052-BLK1) Prepared: 06/02/25 Analyzed: 06/03/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	9.19		8.00		115	70-130			

LCS (2523052-BS1) Prepared: 06/02/25 Analyzed: 06/03/25

Benzene	5.64	0.0250	5.00		113	70-130			
Ethylbenzene	5.48	0.0250	5.00		110	70-130			
Toluene	5.58	0.0250	5.00		112	70-130			
o-Xylene	5.41	0.0250	5.00		108	70-130			
p,m-Xylene	11.0	0.0500	10.0		110	70-130			
Total Xylenes	16.4	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			

Matrix Spike (2523052-MS1) Source: E506003-26 Prepared: 06/02/25 Analyzed: 06/03/25

Benzene	5.58	0.0250	5.00	ND	112	70-130			
Ethylbenzene	5.38	0.0250	5.00	ND	108	70-130			
Toluene	5.49	0.0250	5.00	ND	110	70-130			
o-Xylene	5.31	0.0250	5.00	ND	106	70-130			
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130			
Total Xylenes	16.1	0.0250	15.0	ND	107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.8	70-130			

Matrix Spike Dup (2523052-MSD1) Source: E506003-26 Prepared: 06/02/25 Analyzed: 06/03/25

Benzene	4.98	0.0250	5.00	ND	99.5	70-130	11.3	27	
Ethylbenzene	4.83	0.0250	5.00	ND	96.6	70-130	10.8	26	
Toluene	4.91	0.0250	5.00	ND	98.3	70-130	11.1	20	
o-Xylene	4.74	0.0250	5.00	ND	94.9	70-130	11.3	25	
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	70-130	10.5	23	
Total Xylenes	14.5	0.0250	15.0	ND	96.5	70-130	10.7	26	
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.7	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 6/4/2025 11:51:14AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2523052-BLK1) Prepared: 06/02/25 Analyzed: 06/03/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.08		8.00		101	70-130			

LCS (2523052-BS2) Prepared: 06/02/25 Analyzed: 06/03/25

Gasoline Range Organics (C6-C10)	41.9	20.0	50.0		83.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

Matrix Spike (2523052-MS2) Source: E506003-26 Prepared: 06/02/25 Analyzed: 06/03/25

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0	ND	87.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

Matrix Spike Dup (2523052-MSD2) Source: E506003-26 Prepared: 06/02/25 Analyzed: 06/03/25

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	89.1	70-130	2.15	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 6/4/2025 11:51:14AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2523058-BLK1)					Prepared: 06/03/25 Analyzed: 06/03/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.6		50.0		103	61-141			

LCS (2523058-BS1)					Prepared: 06/03/25 Analyzed: 06/03/25				
Diesel Range Organics (C10-C28)	266	25.0	250		106	66-144			
Surrogate: n-Nonane	52.0		50.0		104	61-141			

Matrix Spike (2523058-MS1)					Source: E506005-02		Prepared: 06/03/25 Analyzed: 06/03/25		
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	56-156			
Surrogate: n-Nonane	52.5		50.0		105	61-141			

Matrix Spike Dup (2523058-MSD1)					Source: E506005-02		Prepared: 06/03/25 Analyzed: 06/03/25		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	56-156	1.87	20	
Surrogate: n-Nonane	51.0		50.0		102	61-141			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Disposal 50571 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 6/4/2025 11:51:14AM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2523056-BLK1)				Prepared: 06/03/25 Analyzed: 06/03/25					
Chloride	ND	20.0							
LCS (2523056-BS1)				Prepared: 06/03/25 Analyzed: 06/03/25					
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2523056-MS1)				Source: E506005-05		Prepared: 06/03/25 Analyzed: 06/03/25			
Chloride	276	20.0	250	23.4	101	80-120			
Matrix Spike Dup (2523056-MSD1)				Source: E506005-05		Prepared: 06/03/25 Analyzed: 06/03/25			
Chloride	278	20.0	250	23.4	102	80-120	0.929	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc.	Project Name:	Jackson Disposal 50571	
3101 Boyd Drive	Project Number:	25013-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	06/04/25 11:51

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Analytical Lab				Client Information				Invoice Information				Lab Use Only				TAT				State							
Client: Vertex Resource (Bill to Jonah Energy)				Company: [redacted]				Lab WO#				Job Number				1D 2D 3D Std				NM CO UT TX							
Project Name: Jackson Disposal Line 50571				Address: [redacted]				E506006				25013-0001								☒							
Project Manager: Chance Dixon				City, State, Zip: [redacted]																							
Address: 3101 Boyd Dr				Phone: [redacted]																							
City, State, Zip: Carlsbad, NM, 88220				Email: [redacted]																							
Phone: 5759881472				Miscellaneous: nAPP2511450571																							
Email: Cdixon@vertexresource.com				Project Number: 25A-02314																							
Sample Information																Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	EEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA									
14:00	05.30.2025	Soil	1	BS25-23 2.75'		1		X	X	X																	
14:10	05.30.2025	Soil	1	BS25-26 2.75'		2		X	X	X																	
Additional Instructions:																											
I, (field sampler), attest to the validity and authenticity of this sample and state that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: [Signature]																											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temperature above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: ☒ Y / ☐ N															
[Signature]		5-30-25		18:30		Michelle Gonzales		6-2-25		1130																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
Michelle Gonzales		6-2-25		1845		[Signature]		6-2-25		1845																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
[Signature]		6-2-25		2400		Caitlin Mann		6-3-25		800																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
[Signature]																											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																											
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											

Envirotech Analytical Laboratory

Printed: 6/3/2025 8:30:47AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

Client:	Vertex Resource Services Inc.	Date Received:	06/03/25 08:00	Work Order ID:	E506006
Phone:	(575) 748-0176	Date Logged In:	06/02/25 15:02	Logged In By:	Caitlin Mars
Email:	cdixon@vertexresource.com	Due Date:	06/03/25 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

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

QUESTIONS

Action 487716

QUESTIONS

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 487716
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2231658827
Incident Name	NAPP2231658827 JACKSON DISPOSAL LINE @ 30-025-41140
Incident Type	Release Other
Incident Status	Reclamation Report Received
Incident Well	[30-025-41140] JACKSON UNIT #021H

Location of Release Source

Please answer all the questions in this group.

Site Name	JACKSON DISPOSAL LINE
Date Release Discovered	11/12/2022
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Freeze Flow Line - Production Condensate Released: 32 BBL Recovered: 0 BBL Lost: 32 BBL.
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 487716

QUESTIONS (continued)

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 487716
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 10/30/2024
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QUESTIONS, Page 3

Action 487716

QUESTIONS (continued)

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 487716
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 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	Between 1 and 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)	49400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	147200
GRO+DRO (EPA SW-846 Method 8015M)	147200
BTEX (EPA SW-846 Method 8021B or 8260B)	147
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/03/2023
On what date will (or did) the final sampling or liner inspection occur	01/17/2023
On what date will (or was) the remediation complete(d)	03/29/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	3267
What is the estimated volume (in cubic yards) that will be remediated	1644
<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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Action 487716

QUESTIONS (continued)

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 487716
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [JEG1635837366]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	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: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 10/30/2024
<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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Action 487716

QUESTIONS (continued)

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 487716
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 487716

QUESTIONS (continued)

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 487716
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	397412
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2023
What was the (estimated) number of samples that were to be gathered	34
What was the sampling surface area in square feet	3267

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3067
What was the total volume (cubic yards) remediated	1644
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	PASTURE AREA WAS BACKFILLED WITH CALICHE UNTIL THE TOP 4' WAS MET, THEN TOPSOIL WAS USED TO FINISH BACKFILLING. THIS WAS A REMEDIATION PROJECT.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 10/30/2024
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Action 487716

QUESTIONS (continued)

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 487716
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	5124
What was the total volume of replacement material (in cubic yards) for this site	696
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	07/21/2025
Summarize any additional reclamation activities not included by answers (above)	Release area had to be re-excavated due to incident nAPP2511450571. Site was backfilled with suitable soil and contoured to pre-disturbance levels.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Chance Dixon Title: Project Manager Vertex Email: cdixon@vertexresource.com Date: 07/22/2025

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Action 487716

QUESTIONS (continued)

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 487716
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 487716

CONDITIONS

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 487716
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	8/14/2025