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Our ref: 12649609-NMOCD-1

February 26, 2025

New Mexico Oil Conservation Division
District 2
811 South First Street
Artesia, New Mexico 88210

Site Characterization and Remediation Work Plan #2
Scout Energy Partners
West Dollarhide Drinkard Unit #137 Release
Incident ID: nAPP2408038089
19-24S-38E, Lea County, New Mexico

1. Introduction

GHD Services Inc. (GHD), on behalf of Scout Energy Management, LLC (Scout), submits this Site Characterization and Remediation Work Plan #2 (Work Plan) to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Work Plan provides documentation of remedial activities conducted to date in the affected area at the West Dollarhide Drinkard Unit #137 Release Site (Site). The Site is located in Section 19 of Township 24 South and Range 38 East in Lea County, New Mexico. The GPS Coordinates for the release Site are 32.195011 N latitude, 103.096483 W longitude. The land surface where the release occurred is privately owned by DBR LAND LLC. **Figure 1** depicts the Site location.

2. Background Information

A C-141 Release Notification for this release was submitted to the NMOCD on March 19, 2024. The C-141 stated that approximately 26 barrels (bbls) of crude oil and 495 bbls of produced water were released from a 2.875-inch flowline. Approximately 41 bbls were recovered. The release is subject to the jurisdiction of the NMOCD District I Office in Hobbs, New Mexico. The NMOCD assigned the release with Incident Number nAPP2408038089.

Initial assessment and remediation activities were conducted by Scout and E Tech Environmental and Safety Solutions, Inc. (ETESS) and were documented in the previously submitted *Closure Report*, dated June 13, 2024. On July 31, 2024, the NMOCD denied closure due to the following:

– Failure to provide proper sampling notification;
– A wetland/significant watercourse is approximately 600 feet north of the release location, and a wetland bisects the former pad of the plugged and abandoned West Dollarhide Queen Sand Unit #100Y (30-025-30216);
– Number of confirmation samples collected were not compliant with NMAC 19.15.29.12.D.(1)(c); and

– The release must meet the requirements of 19.15.29.13 NMAC at the time of remediation as it is considered not reasonably needed for production operations or for subsequent drilling operations.

In August 2024, GHD was retained by Scout to provide environmental consulting services, following closure denial. Based upon the soil analytical data provided by Scout and discussions with the NMOCD, an additional significant watercourse evaluation and assessment activities are warranted to support future remediation activities (excavation).

3. Site Characterization and Closure Criteria

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (NMAC 19.15.29) of the New Mexico Administrative Code (NMAC).

Depth to groundwater was previously determined to be greater than 100 feet below ground surface (ft bgs). On May 14, 2024, HR Enterprises (HRE) installed a depth to water (DTW) boring in the vicinity of the Site. The soil boring was advanced to approximately 105 ft bgs and is located at the following GPS coordinates, 32.190699 N latitude and 103.094885 W longitude. The boring was left open for seventy-two (72) hours and a water level meter was utilized to determine the presence or absence of groundwater. The boring was gauged on May 17, 2024, no groundwater was detected in the boring, therefore, DTW for the Site is greater than 105 ft bgs. The boring was plugged and abandoned by HRE on May 17, 2024.

According to the United States Geological Survey (USGS) topographic map, a dashed blue line is depicted transversing the southern portion of the Site. Based on discussions with the NMOCD, GHD conducted an on-Site evaluation on September 5, 2024, where one linear watercourse was identified. Upon submittal to the NMOCD for review, a request for additional information was received from NMOCD to make a determination of whether or not a significant watercourse was present on-Site. A supplemental field effort was conducted on February 7, 2025, in order to collect additional information about the potential watercourse. Based on desktop review and field survey, GHD concluded there are no features within the Site that meet the definition of “significant watercourse” per NMAC regulations (19.15.17.7 NMAC).

Additionally, no other receptors (Karst areas, significant watercourses, water wells, playas, wetlands or ordinance boundaries) were located within each specific boundary or distance from the Site and the Site is not within a mapped floodplain. The Site characterization documentation (DTW boring log, Karst Potential, Points of Diversion, Wetlands, and FEMA maps) and Watercourse Determination Report are provided in **Attachment A**. The closure criteria are listed below:

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg Total Petroleum Hydrocarbons (TPH) was applied to the top 4 feet of areas to the north and south of the lease road that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

Table 1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Regulatory Standard	Benzene (mg/kg)	BTEX (mg/kg)	TPH (GRO+DRO) (mg/kg)	TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0 to 4 feet).	10	50	---	100	600

Regulatory Standard	Benzene (mg/kg)	BTEX (mg/kg)	TPH (GRO+DRO) (mg/kg)	TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release.	10	50	1,000	2,500	20,000

Notes:
--- = not defined
mg/kg = milligrams per kilogram
TPH = total petroleum hydrocarbons
GRO+DRO+MRO = Gasoline Range Organics + Diesel Range Organics + Motor Oil/Lube Range Organics
BTEX = benzene, toluene, ethylbenzene, and xylene

4. Soil Delineation Activities

On November 20, 2024, GHD and Savage Drilling (Savage) mobilized to the Site to install 33 soil borings (SB-1 through SB-33) to delineate the horizontal and vertical extent of the affected soils. Soil boring locations are shown on **Figures 2A and 2B**. Soil borings were advanced to depths ranging from approximately 4 to 29 ft bgs utilizing air rotary and direct push technology (DPT). Soil samples were collected at various depth intervals based on field screening results.

Soil samples were placed directly into laboratory-provided containers, which were immediately labelled, sealed, and stored/transported in a cooler containing ice to a laboratory certified by the National Environmental Laboratory Program (NELAP) for analysis. Samples were submitted to Cardinal Laboratory in Jal, New Mexico for laboratory analysis of BTEX by the United States Environmental Protection Agency (EPA) SW846 Method 8021B, TPH by EPA SW46 Method 8015B Modified, and chloride by EPA Method 300.0.

Analytical results indicated none of the soil samples collected from the soil borings advanced at the Site exhibited BTEX, TPH, or chloride concentrations above the Table I Closure Criteria. Analytical results are shown in **Table 1** and the laboratory analytical report is included as **Attachment B**. The stratigraphic boring logs are included as **Attachment C.**

5. nAPP2408038089 Proposed Remediation Work Plan

GHD, on behalf of Scout, proposes the following activities to be conducted at the Site:

- Additional excavation will proceed laterally and vertically until sidewall and floor samples are compliant with the Site Closure Criteria in the release area and the reclamation requirements in the top 4 feet in the areas north and south of the active lease road. Soil samples will be field screened with Hach Chloride Test Strips or a portable calibrated electrical conductivity meter to guide the extent of excavation but will also be confirmed by laboratory analysis.
- Following removal of the impacted soil, 5-point composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than two hundred (200) square feet. Discrete soil samples will be collected from the sidewalls if any staining is observed. All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW846 Method 8015B Modified, and chloride by EPA Method 300.
- Once confirmation soil sampling has been completed and results indicate all impacted soil has been sufficiently excavated, the remedial excavation will be backfilled with off-Site locally sourced fill materials and recontoured to match pre-existing conditions.

- Up to 4 composite samples will be collected to confirm backfill is clean with TPH concentrations less than 100 mg/kg and chloride concentrations less than 600 mg/kg.
- Areas that must be reclaimed will be fertilized and re-seeded with a Bureau of Land Management (BLM) approved seed mix.

6. Request of Workplan Approval

GHD, on behalf of Scout, requests approval of this workplan and the proposed activities within. The proposed remediation activities will be performed within 60 days after the work plan has been approved. Once analytical results are below the Table I Closure Criteria, a detailed closure report will be submitted to the NMOCD.

Should you have any questions or comments concerning this Site Characterization and Remediation Work Plan #2, please do not hesitate to contact either of the undersigned.

Regards,

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Project Director

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Encl. Table 1 – Summary of Soil Analytical Results
Figure 1 – Site Location Map
Figure 2 – Site Detail Map
Attachment A – Site Characterization Documentation
Attachment B – Laboratory Analytical Reports and Chain-of-Custody Documentation
Attachment C – Soil Boring Logs

Table 1

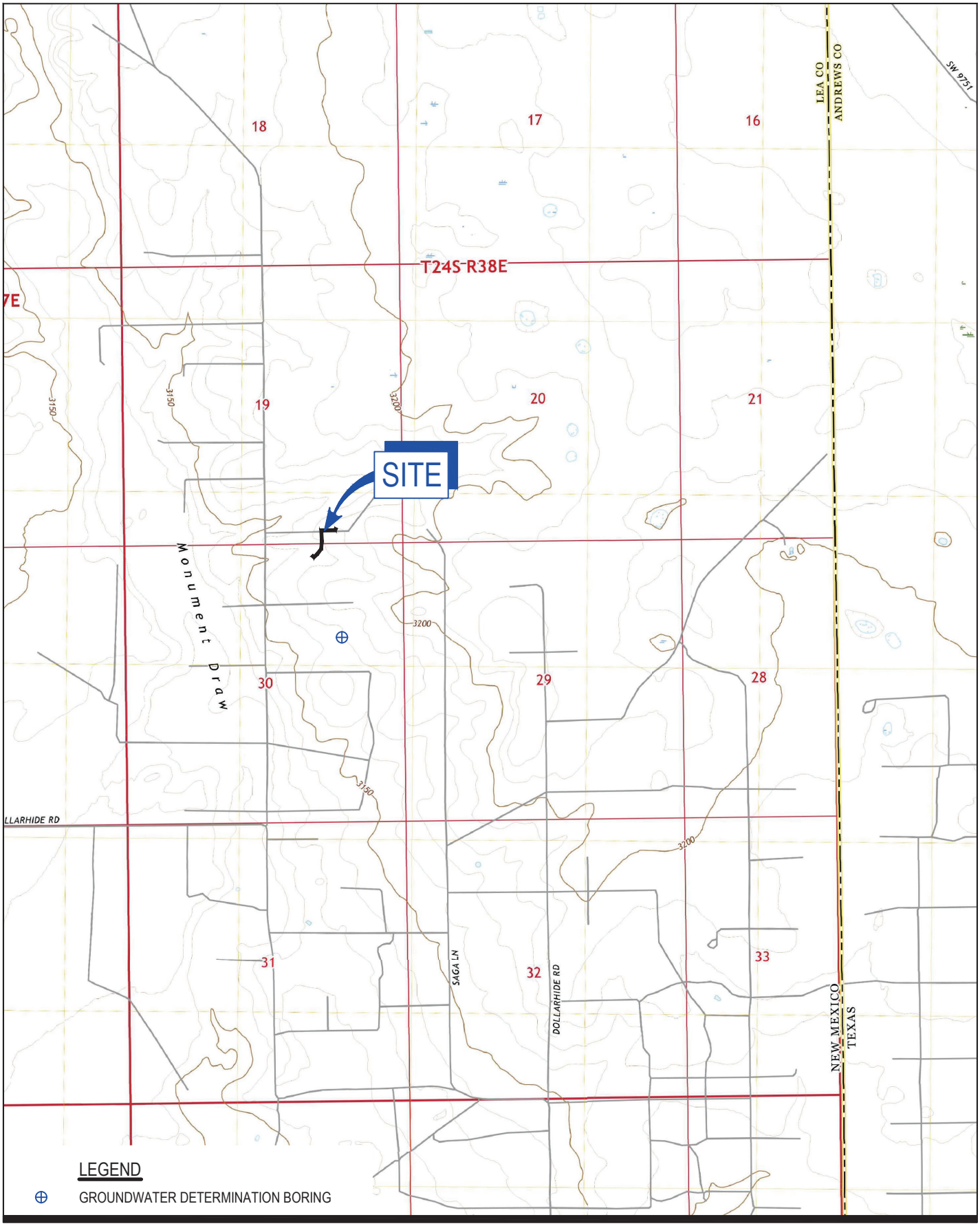
Summary of Soil Analytical Data
West Dollarhide Drinkard Unit #137
Scout Energy Partners
Lea County, New Mexico

Sample Name	Notes	Depth (ft bgs)	Date	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Total Xylenes mg/kg	Total BTEX mg/kg	Total TPH (C_6-C_{35}) mg/kg	Chloride mg/kg
Closure Criteria for Soils Impacted by a Release >100 feet (19.15.29.12)				**10**	**NE**	**NE**	**NE**	**50**	**2,500**	**20,000**
Restoration Requirments within 0 - 4 ft bgs (19.15.29.13)				**10**	**NE**	**NE**	**NE**	**50**	**100**	**600**
SB 01	--	2	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**463**
SB 01	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**86.9**
SB 02	--	2	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**333**
SB 02	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**130**
SB 03	--	2	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**1,540**
SB 03	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**1,080**
SB 04	--	2	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**437**
SB 04	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**86.0**
SB 05	--	2	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**587**
SB 05	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**103**
SB 06	--	2	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**56.7**
SB 06	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**36.5**
SB 07	--	2	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**244**
SB 07	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**166**
SB 08	--	2	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**408**
SB 08	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**100**
SB 09	--	2	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**353**
SB 09	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**39.6**
SB 10	--	2	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**633**
SB 10	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**815**
SB 11	--	2	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**787**
SB 11	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**1,630**
SB 12	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**770**
SB 13	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**1,020**
SB 14	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**4,000**
SB 15	--	4	11/20/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**164**
SB 16	--	2	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**128**
SB 16	--	4	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**296**
SB 17	--	2	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**525**
SB 17	--	4	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**949**
SB 18	--	4	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**1,110**
SB 19	--	2	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**326**
SB 19	--	4	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**310**
SB 20	--	4	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**1,250**
SB 20	--	10	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**595**
SB 20	DUP 01	10	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**366**
SB 20	--	15	11/21/24	NA	NA	NA	NA	NA	NA	**554**
SB 20	--	20	11/21/24	NA	NA	NA	NA	NA	NA	**739**
SB 20	--	30	11/21/24	NA	NA	NA	NA	NA	NA	**919**
SB 21	--	2	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**1,350**
SB 21	--	4	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**1,620**
SB 22	--	4	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**91.2**
SB 22	--	10	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**294**
SB 22	DUP 02	10	11/21/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**294**
SB 23	--	2	11/23/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**510**
SB 23	--	4	11/23/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**542**

Summary of Soil Analytical Data
West Dollarhide Drinkard Unit #137
Scout Energy Partners
Lea County, New Mexico

Sample Name	Notes	Depth (ft bgs)	Date	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Total Xylenes mg/kg	Total BTEX mg/kg	Total TPH (C_6-C_{35}) mg/kg	Chloride mg/kg
Closure Criteria for Soils Impacted by a Release >100 feet (19.15.29.12)				**10**	**NE**	**NE**	**NE**	**50**	**2,500**	**20,000**
Restoration Requirments within 0 - 4 ft bgs (19.15.29.13)				**10**	**NE**	**NE**	**NE**	**50**	**100**	**600**
SB 24	--	4	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0
SB 24	--	10	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**263**
SB 24	DUP 03	10	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**229**
SB 25	--	2	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**768**
SB 25	--	4	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**1,200**
SN 26	--	2	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**635**
SB 26	--	4	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**848**
SB 27	--	2	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**397**
SB 27	--	4	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**860**
SB 28	--	4	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**2,420**
SB 28	--	10	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**1,150**
SB 28	--	15	11/22/24	NA	NA	NA	NA	NA	NA	**1,160**
SB 28	DUP 04	15	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.7	**1,140**
SB 28	--	20	11/22/24	NA	NA	NA	NA	NA	NA	**877**
SB 28	--	29	11/22/24	NA	NA	NA	NA	NA	NA	**696**
SB 29	--	2	11/23/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**714**
SB 29	--	4	11/23/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**1,460**
SB 30	--	2	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**624**
SB 30	--	4	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**458**
SB 31	--	2	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**322**
SB 31	--	4	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**507**
SB 32	--	2	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**417**
SB 32	--	4	11/22/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**800**
SB 33	--	2	11/23/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**846**
SB 33	--	4	11/23/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**1,070**

Notes:
1. BTEX analyzed using Method 8021B
2. TPH analyzed using Method 8015B
3. Chloride analyzed using EPA Method 300
4. < indicates analyte not detected at or above the reporting limit
5. NE = Not Established
6. Bold indicated COC was detected
7. Bold and highlighted indicates an exceedance.



0 1250 2500 ft

1" = 2500 ft

Coordinate System: NM83-EF

N

GHD

SCOUT ENERGY PARTNERS
WEST DOLLARHIDE DRINKARD UNIT #137
JAL, LEA COUNTY, NEW MEXICO

Project No. 12649609
Date September 2024

SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\US\Dallas\Projects\562\12649609\Digital_Design\ACAD\Figures\RPT001\12649609-GHD-00-00-RPT-EN-D101_WA-001.dwg

Data Source: USGS TOPO, JAL NE QUADRANGLE TEXAS - NEW MEXICO, 2022

0 30 60 ft
1" = 60 ft
Coordinate System: NM83-EF

N

GHD

SCOUT ENERGY PARTNERS
WEST DOLLARHIDE DRINKARD UNIT #137
JAL, LEA COUNTY, NEW MEXICO

Project No. 12649609
Date February 2025

SITE DETAIL MAP

FIGURE 2

Attachments

Attachment A

Site Characterization Documentation

Watercourse Evaluation Report

West Dollarhide Drinkard Unit #137

Scout Energy Partners

February 19, 2025

→ The Power of Commitment

Project name		West Dollarhide Drinkard Unit #137					
Document title		Watercourse Evaluation Report | West Dollarhide Drinkard Unit #137					
Project number		12649609 (2)					
File name		12649609-RPT-Watercourse Evaluation Report.docx					
Status Code	**Revision**	**Author**	**Reviewer**		**Approved for issue**		
			Name	**Signature**	**Name**	**Signature**	**Date**
[Status code]		Michael Lane, Jacqueline Prescott					
[Status code]							
[Status code]							
[Status code]							
[Status code]							

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Appendices

Scope and Limitations

This report has been prepared by GHD for Scout Energy Partners and may only be used and relied on by Scout Energy Partners for the purpose agreed between GHD and Scout Energy Partners as set out in this report.

1. Introduction

GHD Services Inc. (GHD) was retained by Scout Energy Partners (Scout) to conduct an on-Site evaluation of wetlands and waters in association with the environmental remediation efforts on a release of approximately 521 barrels of production fluid (Project). GHD previously completed an on-Site delineation on September 5, 2024, where one linear watercourse was identified. Upon submittal to the New Mexico Energy Minerals & Natural Resources Department (EMNRD) for review, a request for additional information was received for EMNRD to make a determination of whether or not a significant watercourse was present on-Site. A supplemental field effort was conducted on February 7, 2025, in order to collect additional information about the potential watercourse.

This report describes the Project Site conditions, the approach and methodology, and summarizes the results of the on-Site evaluation.

1.1 Site Location

The Project represents an approximate 914-foot path originating from an initial release point with a survey corridor extending 150 feet on either side of the spill line (Appendix A, Figure 1). The Project is located approximately 5.83 miles east of State Highway 18, approximately 1.78 miles west of the New Mexico/Texas border, and approximately 8.26 miles northeast of the town of Jal, Lea County, New Mexico (Site). The approximate center point coordinates of the Site are 32.195728°, -103.096042°.

2. Desktop Background Review

GHD completed a desktop review of spatial data, online databases, and scientific literature to provide contextual information on the ecological setting and to identify the potential location of aquatic features occurring within the Project area. The desktop review included a review of United States Geological Survey (USGS) topographic maps, National Wetland Inventory (NWI), National Resource Conservation Service (NRCS) Soil Survey, National Hydrography Dataset (NHD), and aerial imagery. The boundaries of potential wetland and waterbody features identified by the desktop review were added onto a base map, which was used to guide the on-Site evaluation.

2.1 Ecological Setting

The Project is located in the High Plains level III ecoregion (EPA, 2022). This region is higher and drier than the Central Great Plains to the east and in contrast to the irregular, mostly grassland or grazing land of Northwest Great Plains to the north. Much of the High Plains is characterized by smooth to slightly irregular plains with a high percentage of cropland. Grama-buffalo grass is the potential natural vegetation in this region as compared to mostly wheatgrass-needlegrass to the north, Trans-Pecos shrub savannah to the south, and taller grasses to the east. The ecoregion includes the plains areas of the Llano Estacado. Thousands of playa lakes occur in the region, many serving as recharge areas for the important Ogallala Aquifer. These playa lakes are also essential for waterfowl during their yearly migration along the Central Flyway of North America. Oil and gas production occurs in much of the region.

Furthermore, the Project is located in the Shinnery Sands level IV ecoregion. This ecoregion includes sand hills and dunes as well as flat sandy recharge areas. These sand beds lie at the western edge of the High Plains where rising winds drop heavier sand grains and carry finer material further east onto the flat expanse of the Llano Estacado. The ecoregion is named for the shin oak brush that stabilizes sandy areas subject to wind erosion. Although the shin oak rarely grows higher than 4 feet, its extensive root systems can reach over 50 feet through dune sand to reach water. The largest area of sand dunes, at the southwestern edge of the Llano Estacado is composed of sands blown out from

the Pecos River Basin against the Mescalero Escarpment of the Llano Estacado and serve as a major recharge area for the Pecos River.

2.2 Land Use and Plant Communities

As shown in Appendix A, Figure 2, the Project appears to be mixed use scrub-shrub habitat and scattered oil and gas production sites. Historical aerial imagery suggests the Project area had similar usage as far back as 1985.

2.3 Topography

The Project lies within *Jal NE, TX* 7.5-minute quadrangle map (USGS, 2022) and can be viewed in on Appendix A, Figure 3. Elevation within the Project area is relatively flat with an overall elevation of approximately 3,200 feet above mean sea level (msl). No blue-line water features are depicted on the topographic map in relation to the Project Site. Monument Draw is located approximately 3,000-feet west of the Project area.

The historical topographic maps included a dash-dot blue line from 1972-1985. The more recently updated topographic maps from 2019-2022 do not include any denotation of a linear waterbody.

2.4 Soils

The NRCS soil map units are shown on Appendix A, Figure 4, and summarized in Table 1 with respect to drainage class, hydric rating, and acres within the Project area. A description of the soils seen on-Site along with any associated hydric soil indicators will be discussed in Section 4.1.3.

Table 1 Summary of NRCS Soils and Hydric Rating

Soil Map Unit Name	Drainage Class	Hydric Rating	Acreage
Simona-Upton association (SR)	Well drained	Nonhydric	7.2
Simona fine sandy loam, 0 to 3 percent slopes (SE)	Well drained	Nonhydric	0.6

2.5 Hydrography

According to the Federal Emergency Management Agency (FEMA) flood map for the Project, the Site lies within Zone D, an area of undetermined flood hazard (Appendix A, Figure 5). The National Hydrography Dataset (NHD) and National Wetlands Inventory (NWI) data show a potential ephemeral riverine waterbody on the southern end of the survey area flowing from east to west (Appendix A, Figure 6).

This feature is classified as a R4SBJ riverine habitat (“R” [Riverine] “4” [Intermittent] “SB” [Streambed] “J” [Intermittently Flooded]). According to this classification, the following definitions are recognized:

– Intermittent (4): This subsystem includes channels that contain flowing water only part of the year. When the water is not flowing it may remain in isolated pools or surface water may be absent.
– Intermittently Flooded (J): The substrate is usually exposed, but surface water is present for variable periods without detectable seasonal periodicity. Weeks, months, or even years may intervene between periods of inundation. The dominant plant communities under this water regime may change as soil moisture conditions change. Some areas exhibiting this water regime do not fall within our definition of wetland because they do not have hydric soils or support hydrophytes. This water regime is generally limited to the arid West.

According to the NWI, these data were photo interpreted using a one (1) meter (or less) digital, true color imagery from 2014. The NWI also notes the following data limitations:

– “The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high-altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of

error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis. Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on-Site."

3. Field Survey Methodology

GHD followed the methodology for delineating wetlands outlined in the United States (U.S.) Army Corps of Engineers Wetlands Delineation Manual (1987) and the Regional Supplement to the U.S. Army Corps of Engineers Wetland Delineation Manual: Arid West (Version 2.0) (2010). GHD recognizes potential waters of the United States, including wetlands, as those defined in 33 Code of Federal Regulations (CFR) 328.3. As applicable to this effort, 33 CFR 328.3(b) defines wetlands as "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions." Hydrophytic vegetation ratings assigned by the National Wetland Plant List (NWPL) indicator ratings for the Arid West Region were used and include obligate (OBL), facultative wetland (FACW), and facultative (FAC), facultative upland (FACU), and upland (UPL).

Per 33 CFR 328.3(e), the OHWM is defined as "(the) line on the shore established by the fluctuations of water and indicated by physical characteristics, such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding area." In dry-land fluvial systems typical of the Arid West, it may be difficult to determine whether an ordinary high water mark (OHWM) exists. USACE's "A Field Guide to the Identification of the OHWM in the Arid West: A Delineation Manual" was referenced to address the identification of the OHWM in low-gradient, alluvial ephemeral/intermittent channels in the Arid West.

GHD excavated several soil pits to identify hydric or non-hydric soil characteristics within the Site. Wetland determination data sheets were completed at each sample point location and are available in Appendix C.

In addition, the New Mexico Administrative Code (NMAC) defines a significant watercourse as "a watercourse with a defined bed and bank either named or identified by a dashed blue line on a USGS 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank of such watercourse" (19.15.17.7 NMAC).

As a result, GHD completed an on-Site watercourse evaluation within the review area on February 7, 2025. This effort included a comprehensive examination of the physical and biological conditions along the potential watercourse from its upper reach (as evident on topographic and aerial maps) to its confluence with Monument Draw. Pedestrian survey was completed by a professional ecologist across this entire reach. Geolocated photographs were taken in each cardinal direction along the potential watercourse to document the on-Site conditions. Locations of the photographs taken along the potential watercourse are shown in Appendix A, Figure 8. Photographs at each of these locations are presented in Appendix B.

4. Results

GHD originally developed a wetland delineation report for the Project area dated September 30, 2024. GHD did not identify any wetlands within the survey area. One potential watercourse was identified within the survey area that required further investigation to determine if the potential watercourse meets the definition of "significant watercourse" per NMAC regulations.

GHD performed an additional on-Site evaluation on February 7, 2025. GHD took photographs in each cardinal direction at 24 distinct points along the potential watercourse, both upgradient and downgradient of the release site.

Appendix A, Figure 8 provides locations of the photographs provided in Appendix B along with two areas where marginal bed and banks were identified along the watercourse.

Overall, there is no evidence to suggest that a significant watercourse is located within the Project area. The potential watercourse did not include a continuous bed and bank and only included areas with marginal bed at two locations, one 145-foot segment that formed west of the well pad as a result of anthropogenic disturbance exacerbating erosion and a second 395-foot-long segment near its west end (downgradient extent) and Monument Draw.

4.1 Wetlands

GHD did not observe any wetlands within the survey area that meet the USACE three-parameter criteria of hydrophytic vegetation, hydric soils, and hydrology. GHD collected three (3) sample points which all document that the Site includes only uplands. Completed Wetland Determination Datasheets for the upland sample points are provided in Appendix C and Figure 7 in Appendix A depicts the location of the sample points.

GHD observed one upland vegetation community within the Site, scrub-shrub upland. Scrub-shrub uplands are upland habitat dominated by woody vegetation between 3 and 20 feet in height with a less than 3” diameter-at-breast-height (dbh). The dominant shrub species observed include sand sagebrush (*Artemisia filifolia*; UPL) and honey mesquite (*Prosopis glandulosa*; FACU). Dominant herbaceous species observed include purple threeawn (*Aristida purpurea*; UPL), grassland croton (*Croton dioicus*; UPL), Lehmann lovegrass (*Eragrostis lehmanniana*; UPL), threadleaf snakeweed (*Gutierrezia microcephala*; UPL), Gray’s feverfew (*Parthenium confertum*; UPL), and wooly tidestroma (*Tidestroma lanuginosa*; UPL). No indicators of hydrology were observed at any of the sample points. Soil types observed within the Site included fine sandy loam. No indicators of hydric soil were observed at any of the sample points.

4.2 Watercourse Evaluation

In the original delineation report, GHD observed one (1) potential watercourse within the Site. The potential watercourse is surrounded by honey mesquite, a Facultative Upland (FACU) species and does not exhibit a continuous OHWM (bed and banks).

As shown in the photograph log (Appendix B), the potential watercourse was observed to be relatively flat without the presence of a defined bed and bank. Figure 8 in Appendix A, depicts the locations of two areas where a marginal bed and bank were observed. The first area includes a 145-foot segment immediately west (downgradient) of the well pad which is artificially influencing the geomorphology of the swale by creating an abrupt elevation change and conditions that have exacerbated head cutting/erosion. The second area includes a 395-foot segment near the west (downgradient) end of the swale near Monument Draw where marginal bed and banks were observed below a natural head cutting location, adjacent to a former well pad site. The swale then flattens out and does not include a defined bed and bank as it approaches Monument Draw.

Additionally, no culverts were observed along this potential watercourse. The absence of culverts at the lease road crossings an at the well pads suggests that post-rain event water flow is insignificant in terms of frequency, duration, and volume. Therefore, this feature is erosional in nature and does not flow under normal conditions.

Lastly, a review of the available light detection and ranging (LiDAR) and Digital Elevation Model (DEM) data suggests that the feature is a swale with no defined bed and bank along the length of the potential watercourse (Figure 1; USGS 2018). The topography displayed in the figure below indicates that the potential watercourse is mostly flat and does not display any significant elevation changes or a defined bed and bank until the very western end.

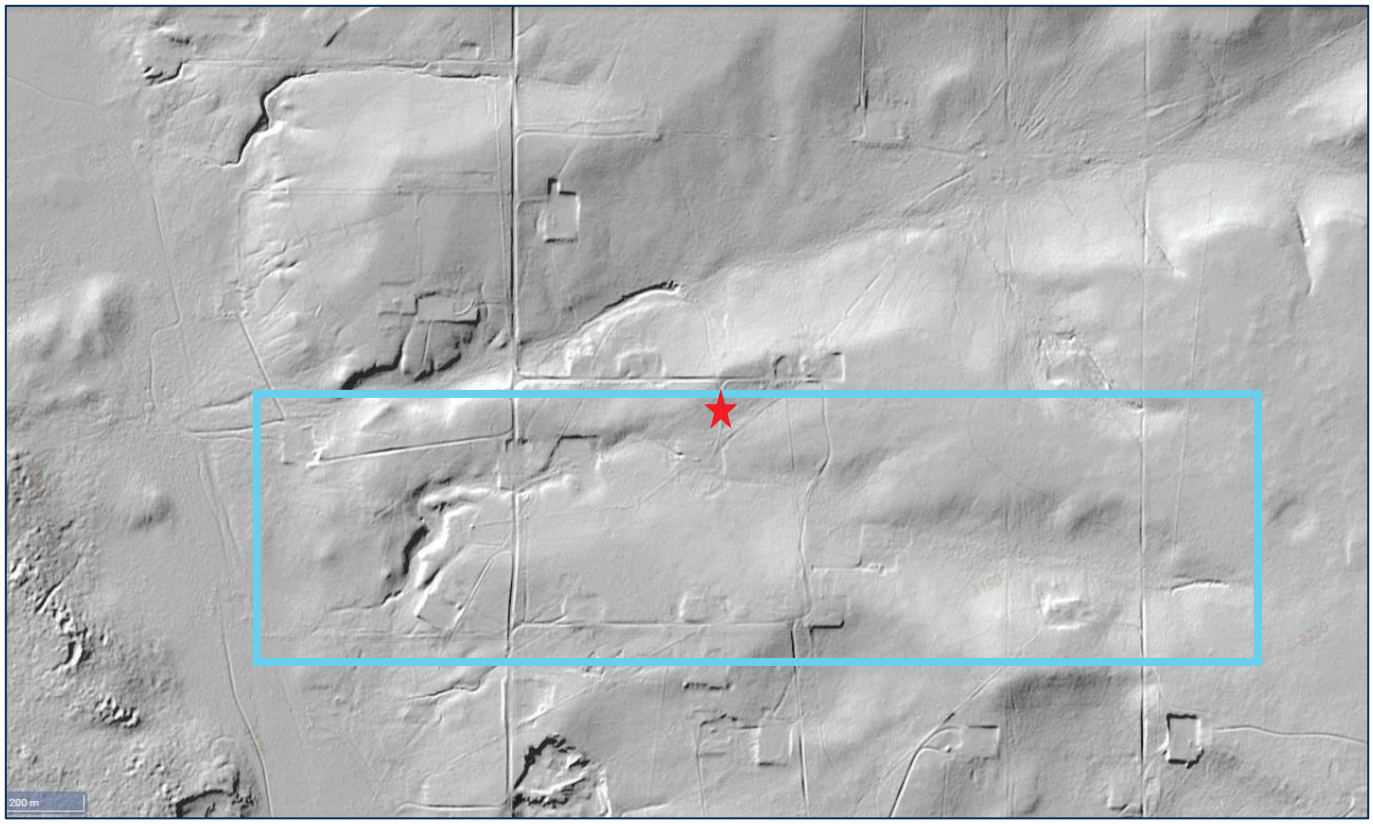


Figure 1 Digital Elevation Model and LiDAR Data

5. Discussion

According to Title 19, Chapter 15, Part 17, Subpart 7 (Definitions) of the NMAC, the State of New Mexico defines a significant watercourse as “a watercourse with a defined bed and bank either named or identified by a dashed blue line on a USGS 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank of such watercourse.”

The potential watercourse does not meet the criteria for a “significant watercourse” for the following reasons:

– There is no blue-line feature depicted on the USGS 7.5-minute topographic map (Appendix A, Figure 3).
  - The feature does not possess a defined bank. The feature is relatively flat (i.e., without slope) in relation to the surrounding land and topography. This suggests that water is not conveyed through this feature for any significant duration, volume, or frequency typical of a lower order tributary.
  - The feature crosses several lease roads and well pads without any culverts prior to its presumed connectivity to Monument Draw. If water flowed with a significant duration, volume, and frequency that would be expected of a tributary to Monument Draw, it is likely that a culvert would exist at this crossing.
  - Following the two (2) points above, the feature would not qualify as a “lower order tributary” to Monument Draw.
– The NWI map (Appendix A, Figure 6) identifies the potential watercourse as a Riverine, Intermittent, Streambed, Intermittently Flooded (R4SBJ); however, GHD’s on-Site field survey observed characteristics of a swale feature.
  - The initial survey occurred three (3) days following four (4) inches of precipitation (a three [3] inch deviation from normal conditions), yet the stream was completely dry during GHD’s on-Site investigation.

- The feature is surrounded by honey mesquite, a Facultative Upland (FACU) plant, suggesting that the area does not receive enough rainfall for the development of hydric soils or the proliferation of hydrophytic vegetation. Further, the dominance of honey mesquite (typical of upland habitats) suggests that the area is typically dry under normal conditions.
- USACE's "A Field Guide to the Identification of the OHWM in the Arid West: A Delineation Manual," the feature could be classified as within a "sheetflood zone."
  - Sheetflood zones are characterized by "the unconfined nature of flood-flow, resulting in a wide mosaic of aquatic and upland features" often occurring as a result of relatively "low-frequency, high-magnitude events."
- The discrepancies between the NWI data and GHD's field observations are reflective of the data limitations acknowledged by the United States Fish and Wildlife Service (USFWS), specifically:
  - "A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis."
  - "Wetlands or other mapped features may have changed since the date of the imagery and/or field work."
  - "There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on-Site."
- The LiDAR digital elevation model and Site conditions observed in the field are consistent with the feature being best described as a swale.
  - The topography of the Site as shown in the LiDAR DEM indicates that the potential watercourse is relatively flat with a slight slope to the west but does not display any significant elevation changes that indicate a defined bed and bank until the very western end.
  - The Site conditions observed during the Site reconnaissance were consistent with the desktop findings. The potential watercourse was observed to be a relatively flat feature with no defined bed and banks. Two distinctly separate areas were observed along the potential watercourse that had marginal bed and banks, but were both due to erosion and head cutting from the adjacent well pads. The swale then flattens out and does not include a defined bed and bank as it approaches Monument Draw.

6. Conclusion

GHD evaluated the potential watercourse at the southern end of the Project area from its upper extent down to its confluence with Monument Draw. Due to the absence of a defined bed and bank, the absence of any observed indicators of water flow following a recent four (4) inch rainfall event, and the dominance of honey mesquite plants (a Facultative Upland species), it was determined that the swale near the southern end of the Site and the surrounding area is typically dry under normal conditions. Further, the absence of culverts at the lease road and well pads suggest an absence of water flow of any significant duration, volume, and/or frequency. Lastly, LiDAR DEM data suggests, and on-Site observation confirms that there are no significant elevation changes that indicate a defined bed and bank within the swale. Therefore, there are no features within the Site that meet the definition of "significant watercourse" per NMAC regulations (19.15.17.7 NMAC).

7. References

Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Stations, Vicksburg, MS.

Environmental Protection Agency (EPA). 2022. Ecoregions of New Mexico. Available at the following link: NM_Front_v8_pc.eps (epa.gov). Accessed February 2025.

National Weather Service (NWS). 2024. Observed Weather at Midland Internation Airport, TX Weather Station. Available online at: Climate (weather.gov). Accessed September 2024.

Natural Resources Conservation Service. Soil Survey Staff. United States Department of Agriculture. Web Soil Survey. Available online at the following link: https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm. Accessed September 2024.

U.S. Army Corps of Engineers (USACE). 2008. A Field Guide to the Identification of the Ordinary High Water mark (OHWM) in the Arid West Region of the Western United States: A Delineation Manual, U.S. Army Corps of Engineers. ERDC/CRREL TR-08-12. Hanover, NH: Cold Regions Research and Engineering Laboratory.

---------- (USACE). 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West (Version 2.0), U.S. Army Corps of Engineers. ERDC/EL TR 10 16. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

---------- (USACE). 2020. NWPL-National Wetland Plant List. Available at the following link: https://wetland-plants.sec.usace.army.mil/nwpl_static/v34/home/home.html. Accessed September 2024.

U.S. Department of Homeland Security. 2025. Federal Emergency Management Agency (FEMA) national flood hazard layer. Available online at the following link: https://msc.fema.gov/portal/home. Accessed February 2025.

United States Fish and Wildlife Service (USFWS). 2024b. National Wetlands Inventory (NWI) Wetlands Mapper. Available online at the following link: https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/. Accessed February 2025.

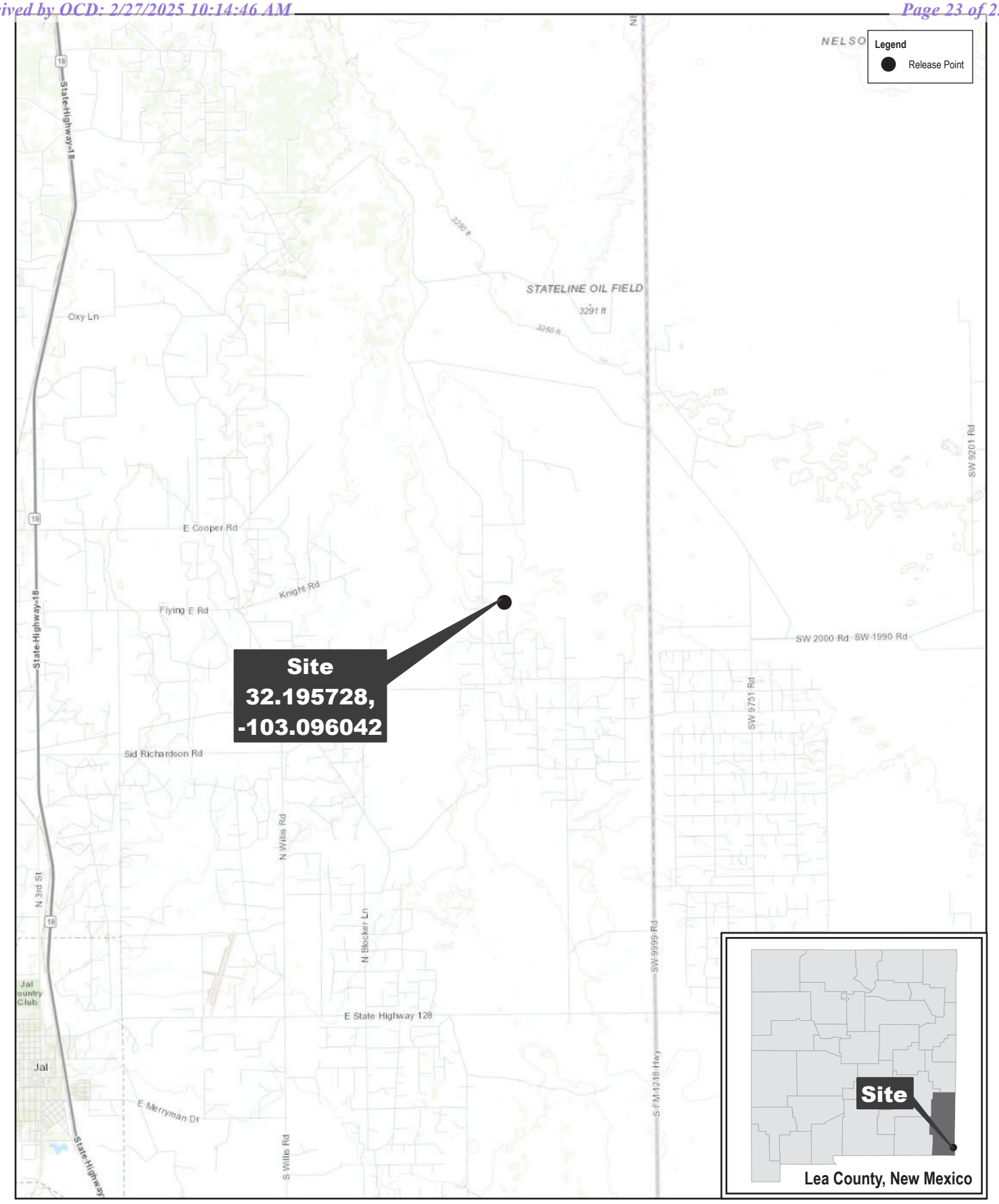
United States Geological Survey (USGS). 2020. NM Southeast LiDAR. Collected 12/04/2018 to 04/28/2019. Published 11/12/2020. Available online at: https://apps.nationalmap.gov/lidar-explorer/#/. Accessed February 2025.

United States Geological Survey (USGS). 2025. National Hydrography Dataset. Technical Report. United States Geological Survey. Available online at the following link: https://www.usgs.gov/national-hydrography. Accessed February 2025.

Appendices

Appendix A

Figures



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GHD

SCOUT
WEST DOLLARHIDE DRINKARD UNIT #137
JAL, LEA COUNTY, NEW MEXICO
WATERCOURSE EVALUATION REPORT

Project No. 12649609
Date Feb 17, 2025

SITE LOCATION

FIGURE 1

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Data source: World Topographic Map: Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA.
Creator: kwilson4

Paper Size ANSI B

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Feet

N

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

GHD

SCOUT
WEST DOLLARHIDE DRINKARD UNIT #137
JAL, LEA COUNTY, NEW MEXICO
WATERCOURSE EVALUATION REPORT

AERIAL MAP

Project No. 12649609
Revision No. -
Date Feb 17, 2025

FIGURE 2

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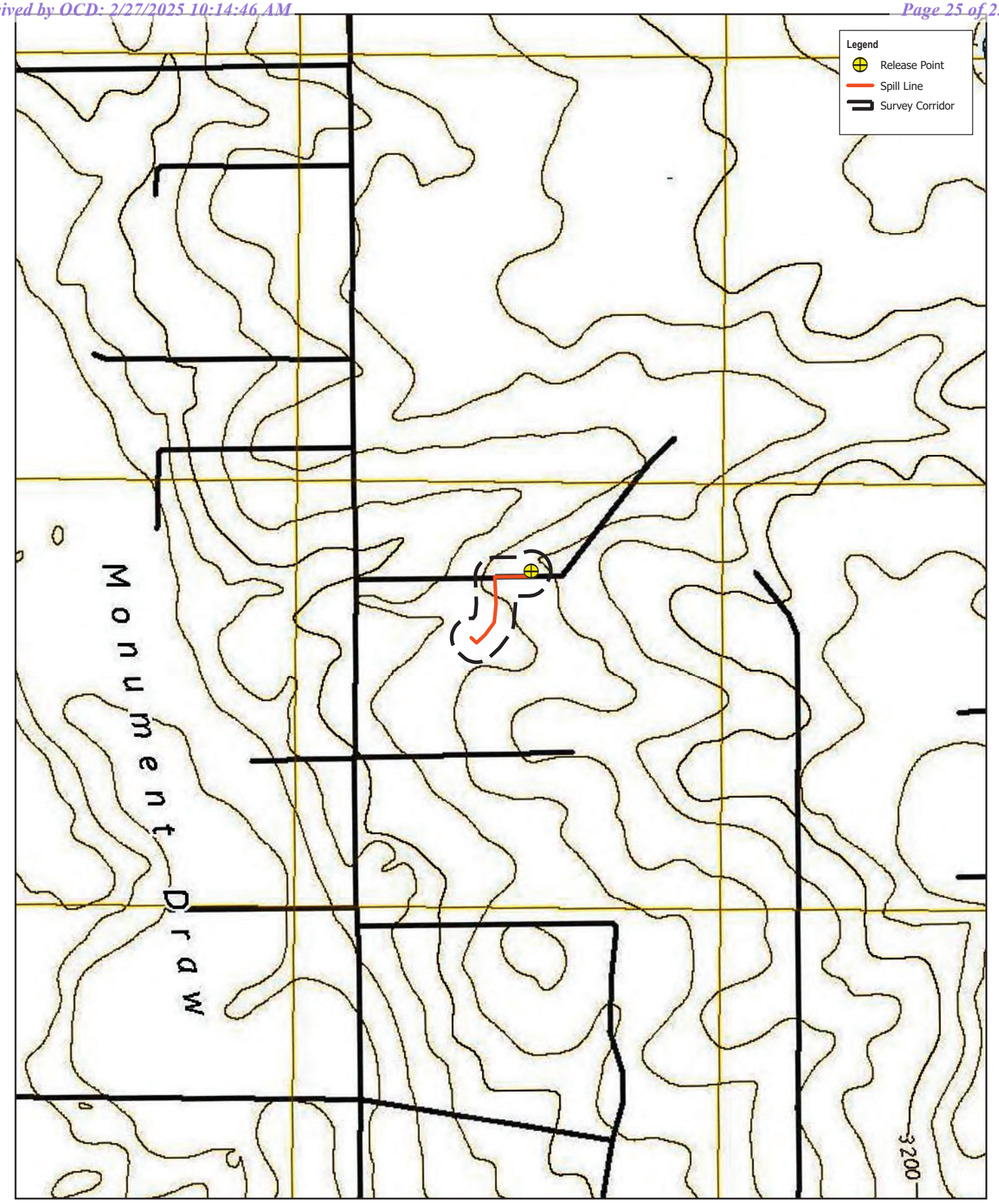

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Feet

Map Projection: Transverse Mercator
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Grid: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

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GHD

SCOUT
WEST DOLLARHIDE DRINKARD UNIT #137
JAL, LEA COUNTY, NEW MEXICO
WATERCOURSE EVALUATION REPORT

Project No. 12649609
Date Feb 18, 2025

TOPOGRAPHIC MAP

FIGURE 3

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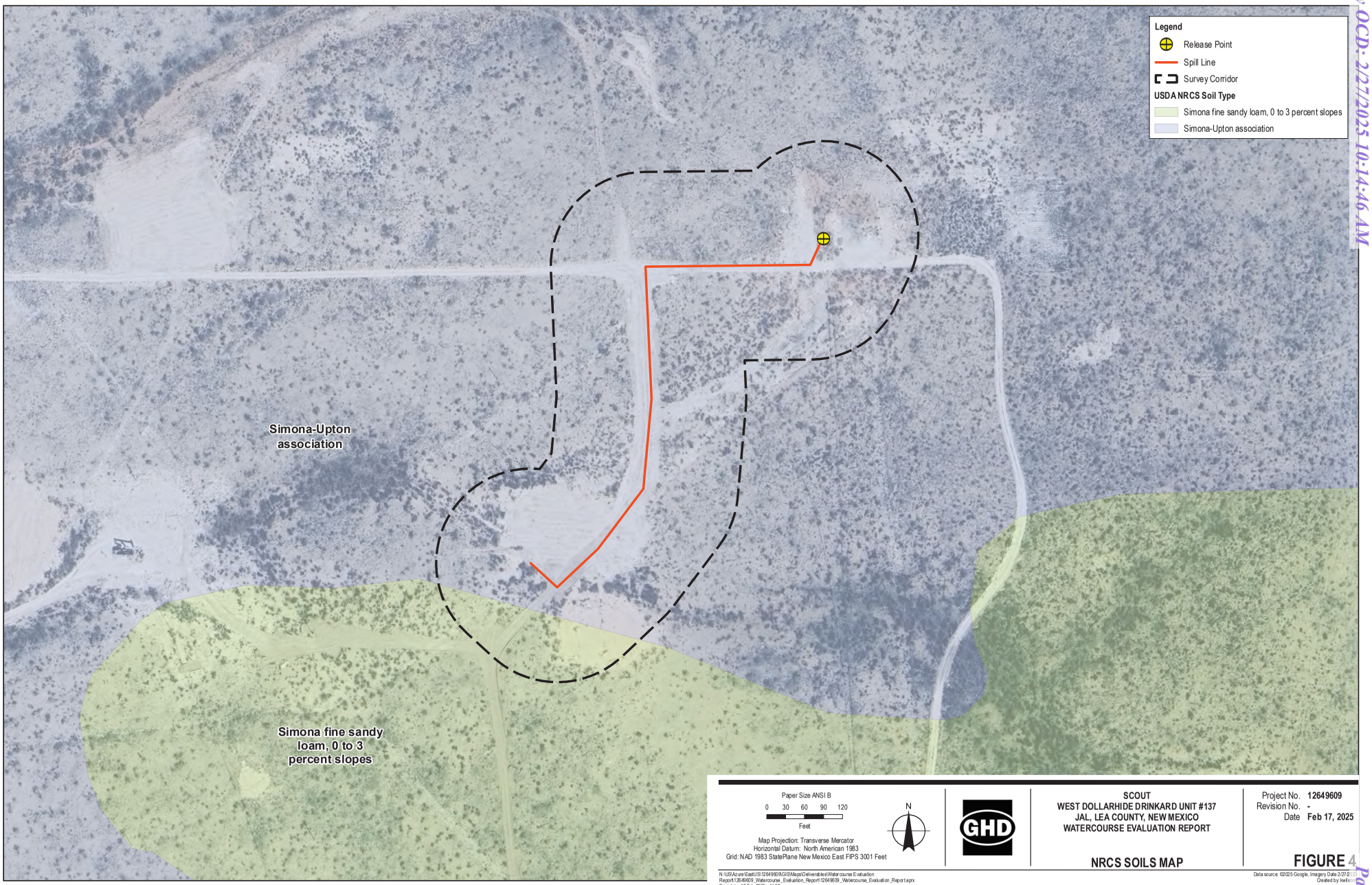
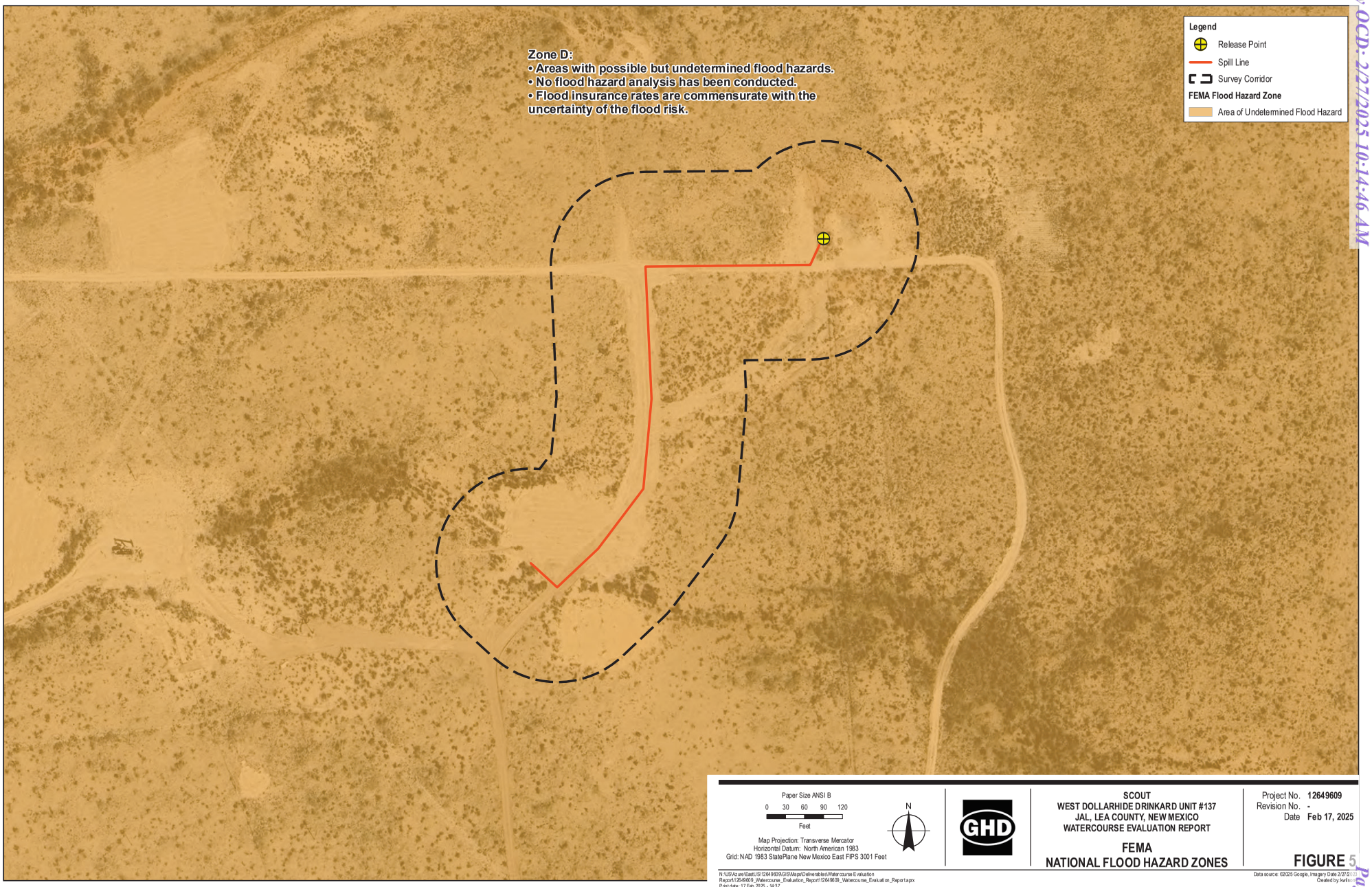
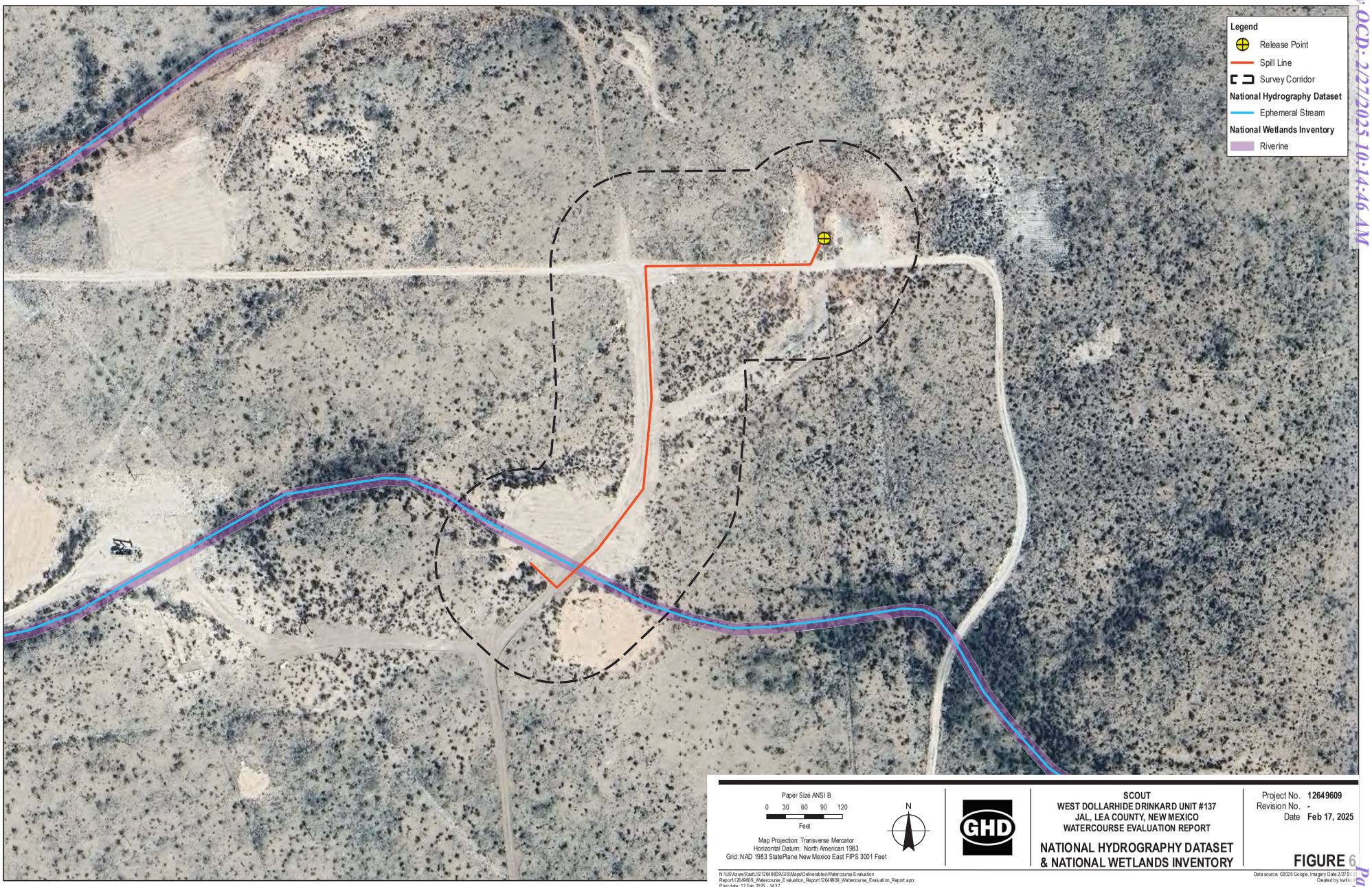
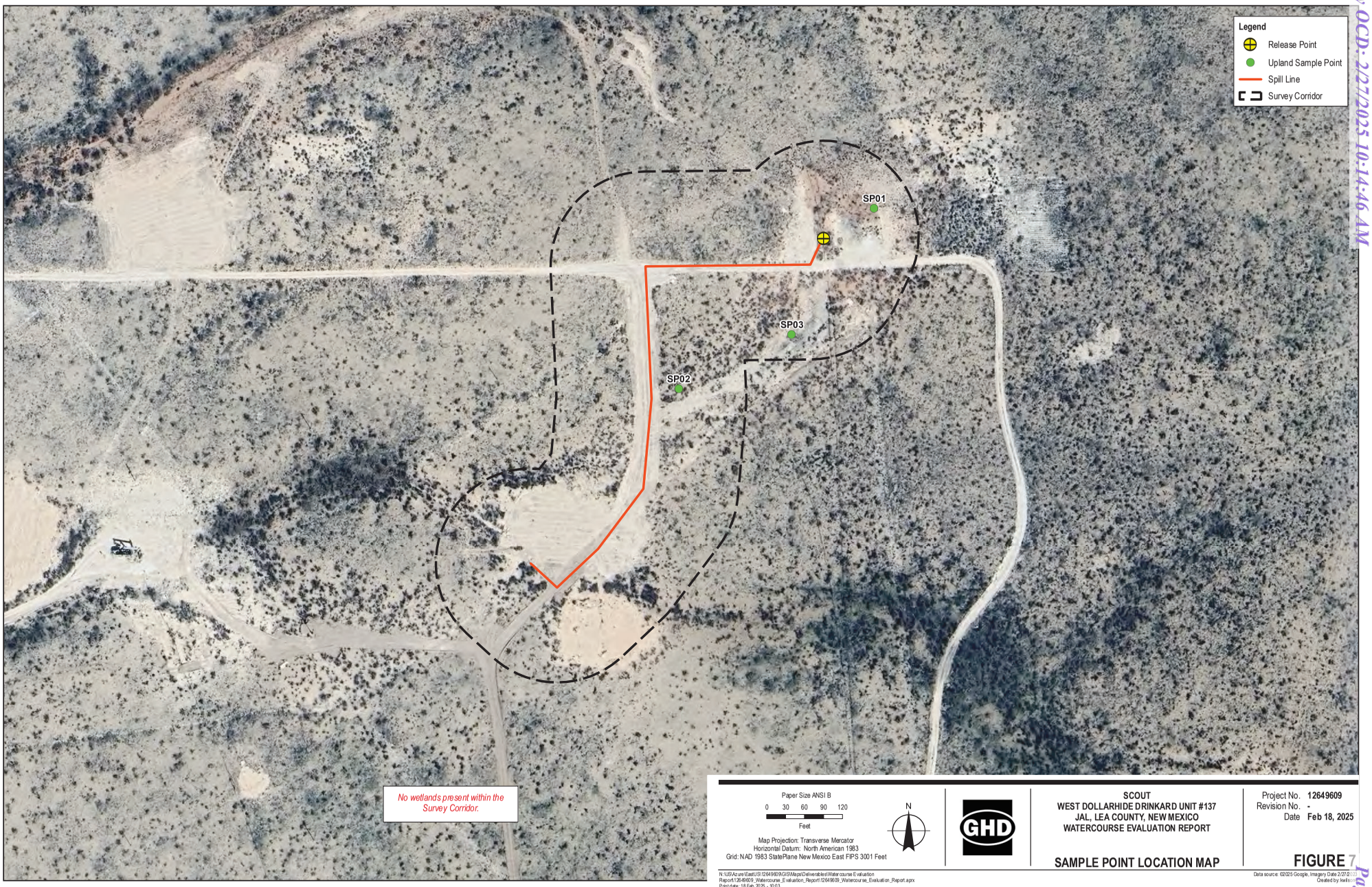
Data source: USGS The National Map, 7.5-Minute Topo: Jal NW Quadrangle (New Mexico - Lea County, 2023) and Jal NE Quadrangle (Texas - New Mexico, 2024)
Creator: kwilson4









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GHD

SCOUT
WEST DOLLARHIDE DRINKARD UNIT #137
JAL, LEA COUNTY, NEW MEXICO
WATERCOURSE EVALUATION REPORT

SAMPLE POINT LOCATION MAP

Project No. 12649609
Revision No. -
Date Feb 18, 2025

FIGURE 7

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GHD

SCOUT
WEST DOLLARHIDE DRINKARD UNIT #137
JAL, LEA COUNTY, NEW MEXICO
WATERCOURSE EVALUATION REPORT

WATERCOURSE EVALUATION MAP

Project No. 12649609
Revision No. -
Date Feb 18, 2025

FIGURE 8

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Created by: kwhi...

Appendix B

Site Photographs

Site Photographs

Photo 1 *Representative view SP01; view facing north.*

Photo 2 *Representative view of SP02, view facing east.*

Photo 3 *Representative view of SP03, view facing west.*

Photo 4 *Looking upgradient at Photo Location 1, facing east.*

Photo 5 Looking downgradient at Photo Location 1, facing west.

Photo 6 Looking upgradient at Photo Location 2, facing east.

Photo 7 Looking downgradient at Photo Location 2, facing west.

Photo 8 Looking upgradient at Photo Location 3, facing east.

Photo 9 Looking downgradient at Photo Location 3, facing west.

Photo 10 Looking upgradient at Photo Location 4, facing east.

Photo 11 Looking downgradient at Photo Location 4, facing west.

Photo 12 Looking upgradient at Photo Location 5, facing east.

Photo 13 Looking downgradient at Photo Location 5, facing west.

Photo 14 Looking upgradient at Photo Location 6, facing east.

Photo 15 Looking downgradient at Photo Location 6, facing west.

Photo 16 Looking upgradient at Photo Location 7, facing east.

Photo 17 Looking downgradient at Photo Location 7, facing west.

Photo 18 Looking upgradient at Photo Location 8, facing east.

Photo 19 Looking downgradient at Photo Location 8, facing west.

Photo 20 Looking upgradient at Photo Location 9, facing east.

Photo 21 Looking downgradient at Photo Location 9, facing west.

Photo 22 Looking upgradient at Photo Location 10, facing east.

Photo 23 Looking downgradient at Photo Location 10, facing west. Photo taken from the well pad that is artificially influencing the geomorphology of the swale by creating an abrupt elevation change and conditions for head cutting and erosion.

Photo 24 Looking upgradient at Photo Location 11, facing east.

Photo 25 Looking downgradient at Photo Location 11, facing west.

Photo 26 Looking upgradient at Photo Location 12, facing east.

Photo 27 Looking downgradient at Photo Location 12, facing west.

Photo 28 Looking upgradient at Photo Location 13, facing east.

Photo 29 Looking downgradient at Photo Location 13, facing west.

Photo 30 Looking upgradient at Photo Location 14, facing northeast.

Photo 31 Looking north along the lease road at Photo Location 15. No culvert or low water crossing present across lease road.

Photo 32 Looking south along the lease road at Photo Location 15. No culvert or low water crossing present across lease road.

Photo 33 Looking east along unimproved roadway at Photo Location 16.

Photo 34 Looking west along unimproved roadway at Photo Location 16.

Photo 35 Looking upgradient at Photo Location 17, facing east.

Photo 36 Looking downgradient at Photo Location 18, facing southwest.

Photo 37 Looking upgradient at Photo Location 19, facing northeast. Some signs of scour, but no bed and bank present.

Photo 38 Looking downgradient at Photo Location 19, facing south.

Photo 39 Looking upgradient at Photo Location 20, facing northeast.

Photo 40 Looking downgradient at Photo Location 20, facing southwest.

Photo 41 Looking upgradient at Photo Location 21, facing northeast.

Photo 42 Looking downgradient at Photo Location 21, facing southwest.

Photo 43 Looking upgradient at Photo Location 22, facing northeast.

Photo 44 Looking downgradient at Photo Location 22, facing southwest.

Photo 45 View of marginal bank line at Photo Location 23, looking northeast.

Photo 46 Looking downgradient at Photo Location 24, facing west.

Appendix C

Wetland Delineation Data Sheets

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Arid West Region
See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: West Dollarhide Drinkard Unit #137 City/County: Lea County Sampling Date: 09/05/2024
Applicant/Owner: Scout Energy Partners State: NM Sampling Point: SP01
Investigator(s): M. Criswell Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Plain Local relief (concave, convex, none): None Slope (%): 00
Subregion (LRR): LRR D Lat: 32.114747 Long: -103.54162 Datum: WGS84
Soil Map Unit Name: Simona-Upton association NWI classification: Scrub-shrub upland
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 30)			
1. *Prosopis glandulosa*	15	Yes	FACU
2. *Artemisia filifolia*	10	Yes	UPL
3. *Yucca torreyi*	5	No	UPL
4.			
5.			
	30 =Total Cover		
Herb Stratum (Plot size: 5)			
1. *Aristida purpurea*	20	Yes	UPL
2. *Eragrostis lehmanniana*	5	Yes	UPL
3. *Croton dioicus*	5	Yes	UPL
4. *Gutierrezia microcephala*	5	Yes	UPL
5. *Parthenium confertum*	5	Yes	UPL
6. *Palafoxia sphacelata*	3	No	
7.			
8.			
	43 =Total Cover		
Woody Vine Stratum (Plot size: 5)			
1.			
2.			
	=Total Cover		

% Bare Ground in Herb Stratum 57 % Cover of Biotic Crust ____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 7 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	15	x 4 =	60
UPL species	55	x 5 =	275
Column Totals:	70 (A)		335 (B)
Prevalence Index = B/A =			4.79

Hydrophytic Vegetation Indicators:
___ Dominance Test is >50%
___ Prevalence Index is ≤3.0[1]
___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)
[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: SP01

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-20	10YR 4/3	100					Sandy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) **(LRR C)**
- ___ 1 cm Muck (A9) **(LRR D)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR C)**
- ___ 2 cm Muck (A10) **(LRR B)**
- ___ Iron-Manganese Masses (F12) **(LRR D)**
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) **(Nonriverine)**
- ___ Sediment Deposits (B2) **(Nonriverine)**
- ___ Drift Deposits (B3) **(Nonriverine)**
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Water Marks (B1) **(Riverine)**
- ___ Sediment Deposits (B2) **(Riverine)**
- ___ Drift Deposits (B3) **(Riverine)**
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? Yes ___ No ___ Depth (inches): ___

(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Arid West Region
See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: West Dollarhide Drinkard Unit #137 City/County: Lea County Sampling Date: 09/05/2024
Applicant/Owner: Scout Energy Partners State: NM Sampling Point: SP02
Investigator(s): M. Criswell Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Plain Local relief (concave, convex, none): None Slope (%): 00
Subregion (LRR): LRR D Lat: 32.114468 Long: -103.54526 Datum: WGS84
Soil Map Unit Name: Simona-Upton association NWI classification: Scrub-shrub upland
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 30)			
1. *Prosopis glandulosa*	35	Yes	FACU
2. *Artemisia filifolia*	10	Yes	UPL
3.			
4.			
5.			
	45 =Total Cover		
Herb Stratum (Plot size: 5)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	=Total Cover		
Woody Vine Stratum (Plot size: 5)			
1.			
2.			
	=Total Cover		

% Bare Ground in Herb Stratum 100 % Cover of Biotic Crust ____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	35	x 4 =	140
UPL species	10	x 5 =	50
Column Totals:	45 (A)		190 (B)

Prevalence Index = B/A = 4.22

Hydrophytic Vegetation Indicators:
___ Dominance Test is >50%
___ Prevalence Index is ≤3.0[1]
___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)
[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: SP02

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-20	10YR 4/2	100					Sandy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) **(LRR C)**
- ___ 1 cm Muck (A9) **(LRR D)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR C)**
- ___ 2 cm Muck (A10) **(LRR B)**
- ___ Iron-Manganese Masses (F12) **(LRR D)**
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) **(Nonriverine)**
- ___ Sediment Deposits (B2) **(Nonriverine)**
- ___ Drift Deposits (B3) **(Nonriverine)**
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Water Marks (B1) **(Riverine)**
- ___ Sediment Deposits (B2) **(Riverine)**
- ___ Drift Deposits (B3) **(Riverine)**
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? Yes ___ No ___ Depth (inches): ___

(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Arid West Region
See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: West Dollarhide Drinkard Unit #137 City/County: Lea County Sampling Date: 09/05/2024
Applicant/Owner: Scout Energy Partners State: NM Sampling Point: SP03
Investigator(s): M. Criswell Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Plain Local relief (concave, convex, none): None Slope (%): 00
Subregion (LRR): LRR D Lat: 32.114551 Long: -103.54316 Datum: WGS84
Soil Map Unit Name: Simona-Upton association NWI classification: Scrub-shrub upland
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ____ No X
Hydric Soil Present? Yes ____ No X
Wetland Hydrology Present? Yes ____ No X

Is the Sampled Area within a Wetland? **Yes** ____ **No** X

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 30)			
1. *Prosopis glandulosa*	35	Yes	FACU
2.			
3.			
4.			
5.			
	35 =Total Cover		
Herb Stratum (Plot size: 5)			
1. *Artemisia filifolia*	5	Yes	UPL
2. *Parthenium confertum*	3	Yes	UPL
3. *Eragrostis lehmanniana*	3	Yes	UPL
4. *Tidestromia lanuginosa*	3	Yes	UPL
5.			
6.			
7.			
8.			
	14 =Total Cover		
Woody Vine Stratum (Plot size: 5)			
1.			
2.			
	=Total Cover		

% Bare Ground in Herb Stratum 86 % Cover of Biotic Crust ____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 5 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	35	x 4 =	140
UPL species	14	x 5 =	70
Column Totals:	49 (A)		210 (B)

Prevalence Index = B/A = 4.29

Hydrophytic Vegetation Indicators:
___ Dominance Test is >50%
___ Prevalence Index is ≤3.0[1]
___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks:

SOIL

Sampling Point: SP03

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-20	10YR 4/2	100					Sandy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) **(LRR C)**
- ___ 1 cm Muck (A9) **(LRR D)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR C)**
- ___ 2 cm Muck (A10) **(LRR B)**
- ___ Iron-Manganese Masses (F12) **(LRR D)**
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) **(Nonriverine)**
- ___ Sediment Deposits (B2) **(Nonriverine)**
- ___ Drift Deposits (B3) **(Nonriverine)**
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Water Marks (B1) **(Riverine)**
- ___ Sediment Deposits (B2) **(Riverine)**
- ___ Drift Deposits (B3) **(Riverine)**
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? Yes ___ No ___ Depth (inches): ___

(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Appendix D

Personnel Curriculum Vitae

Michael Lane PWS

Natural Resources Technical Director

Location
Houston, Texas, USA

Experience
10 years

Qualifications/Accreditations
- Professional Wetland Scientist (PWS) #3146
- MS, Environmental Science, University of Houston – Clear Lake (2016)
- BS, Wildlife & Fisheries Sciences, Texas A&M University (2013)

Key technical skills
- Project Management
- Wetland Science/Delineation/Mitigation/Restoration
- Plant Identification
- Clean Water Act (CWA) Section 404 Permitting
- Endangered Species Act (ESA)
- National Environmental Policy Act (NEPA)

Memberships
- Society of Wetland Scientists
- National Association of Environmental Professionals
- Bayou Land Conservancy (Lands Committee)

Relevant experience summary

Mr. Lane, an experienced environmental professional, has dedicated over a decade to his field. His track record of successful project delivery in both the environmental and AEC (Architecture, Engineering, and Construction) industries reflects his commitment to balancing resilient communities and infrastructure with enduring ecosystems.

Mr. Lane has led numerous environmental impact assessments and adeptly navigates environmental policies for diverse clientele. His innovative solutions and negotiation tactics have streamlined regulatory processes for clients such as Houston Airport System and the City of Beaumont. He has played a crucial role in infrastructure projects related to water resources, transportation, and utilities, often dealing with regulations such as the NEPA, CWA, ESA, and National Historic Preservation Act (NHPA). Additionally, he excels in leading field crews and managing project logistics.

Project experience – Water Resources

Lake Livingston Erosion Protection Bulkhead

Assistant Project Manager |
Trinity River Authority | Onalaska, Texas, USA |
July 2020 – January 2021

Trinity River Authority (TRA) required assistance with USACE permitting related to their proposed construction of a bulkhead along an eroding shoreline of Lake Livingston near US 190 in Onalaska, TX. TRA had initially submitted a permit application to USACE, which had resulted in the requirement to develop a more robust application for a Standard Permit. After being consulted, Mr. Lane engaged the USACE Project Manager and helped negotiate a less complex path forward to utilize a Letter of Permission (LOP) to authorize the proposed project. Mr. Lane led field survey to delineate potential waters of the U.S. and assess threatened and endangered species habitat as well as coordinated with the Texas Historical Commission (THC). Mr. Lane developed a revised permit application that resulted in quick obtainment of the LOP without any mitigation requirements imposed on TRA.

Devers Pump Station Replacement

Environmental Lead |
Lower Neches Valley Authority | Moss Bluff, Texas, USA |
May 2021 – February 2024

As part of the team providing final design and procurement services for a new pump station and associated appurtenances for the Devers 1st Pump Station facility, Mr. Lane led the environmental permitting

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effort with the USACE. Mr. Lane's efforts initiated with delineation of the Trinity River ordinary high water mark (OHWM), evaluating the project area for the presence of wetlands, assessment of potential threatened and endangered species habitat, and a desktop evaluation for cultural resources. Agency coordination with the THC provided that no archeological survey was required, however the USACE Galveston District did require an Approved Jurisdictional Determination (AJD) prior to processing a Letter of Permission application for the required impacts within the Trinity River. Ultimately, Mr. Lane obtained the AJD with USACE agreement that no wetlands were present on-site and the Devers Main Canal is not considered WOTUS. The LOP was eventually issued with no special conditions or mitigation requirements for the client.

Mustang Reservoir Hazard Mitigation

Environmental Lead |
Gulf Coast Water Authority | Danbury, Texas, USA |
August 2021 – February 2023

As part of the project team providing final design services for the Mustang Reservoir to meet the Texas Commission on Environmental Quality (TCEQ)'s current dam safety requirements, Mr. Lane served as the Environmental Lead for assisting with USACE permitting. Mr. Lane led extensive wetland delineations across large swaths of property owned by Gulf Coast Water Authority (GCWA) as well as adjacent properties being considered for sourcing fill material to utilize for the required reservoir embankment improvements. As the project advanced, Mr. Lane leveraged his permitting expertise to coordinate with the USACE Galveston District and obtain an Approved Jurisdictional Determination (AJD) for Mustang Reservoir and GCWA's associated canals, which determined that these were not considered waters of the U.S. Subsequently, Mr. Lane obtained a NWP 13 District Engineer Waiver (due to cubic yard/linear foot threshold exceedance) for required bank improvements along Mustang Bayou, which was the only regulated waterbody that was to be impacted by the project.

Project experience – Ecological Restoration/Enhancement

Chocolate Bay Prairie Unit Hydrological Restoration

Project Manager |
Ducks Unlimited | Angleton, Texas, USA |
May 2021 – April 2024

Ducks Unlimited (DU) is assisting the USFWS with the design and implementation of ecological enhancements to the Chocolate Bay Prairie Unit (CBPU) of Brazoria National Wildlife Refuge (NWR). DU's excellent surveying capability and experience with water control structures in combination with external stormwater modeling expertise allowed for a constructable/permittable project design to be developed. After the preferred project alternative was developed, Mr. Lane's team began collecting data toward the development of a USACE NWP 27 PCN while simultaneously developing a Monitoring and Adaptive Management (MAM) Plan outlining how pre- and post-construction monitoring efforts would be conducted for review and approval by the funding entity, National Fish and Wildlife Foundation (NFWF). Ultimately, the MAM Plan was approved and DU gathered the equipment necessary to begin pre-construction monitoring efforts. These efforts began in summer 2022 and are still underway. The NWP 27 PCN was submitted to USACE and authorization was received a few months later. This project will ultimately enhance aquatic habitats at Brazoria NWR and provide important benefits to migratory birds and other protected species.

Lawson's Canal Restoration

Project Manager |
City of Beaumont | Beaumont, Texas, USA |
January 2019 – April 2024

The City of Beaumont initially sought help with the development of an After-the-Fact Permit under Section 404 of the CWA to resolve a USACE violation for the placement of fill material in a portion of Lawson's Canal that was no longer in use for water conveyance. Eventually, it was determined that removal of the fill material and restoration of the site was a more advantageous approach for the City. Mr. Lane led the development of a NWP 27 PCN, including conducting iHGM functional assessments and the development of a restoration plan that outlined returning the former canal area to forested wetlands to mimic adjacent reference conditions. After receipt of the NWP 27, Mr. Lane continued to serve the City as a trusted advisor through the construction and planting aspects of the site restoration. His efforts included post-excavation/grading site inspection, collection of soil samples for lab analysis to verify suitability for planting/tree viability, identifying and coordinating with a local tree farm to source the native species from, and coordination with the contractor on site prep (including selective vegetation clearing) and tree planting locations. Upon completion of the restoration efforts, Mr. Lane continued his project leadership through oversight of the required compliance monitoring and USACE coordination.

Project experience – Transportation

Dallas to Houston High-Speed Rail

Assistant Project Manager |
Texas Central Partners | Houston, Texas, USA |
January 2016 – April 2020

Mr. Lane played a key role in the ongoing development of the first privately funded high-speed rail project in North America. Mr. Lane worked closely with stakeholders such as Texas Central Partners, the Owner's Engineer, USACE Fort Worth and Galveston Districts, FRA, TCEQ, the City of Dallas, and others during the development of two Section 404 Individual Permit applications as well as a Section 408 Permission and Section 401 Water Quality Certification. These efforts required extensive aquatic resource delineation fieldwork, USACE jurisdictional determinations, and oversight over a third-party mitigation provider. Mr. Lane served as the assistant project manager for environmental efforts, leading a significant amount of the field delineation efforts and USACE field verification visits. Mr. Lane also played a critical role in preparation of the responses to comments received from public notices, which included careful review and consistency checks against those comments received on the FRA's EIS.

Taxiway Lima

Environmental Lead |
Houston Airport System | Houston, Texas, USA |
October 2021 – March 2022

As part of the Houston Airport System (HAS)'s mission to develop the Houston Spaceport at Ellington Airport (EFD), environmental support was necessary in order to receive the appropriate NEPA approval through the Federal Aviation Administration (FAA). As HAS was coordinating with the project team on the development of a Categorical Exclusion (CE) document, Mr. Lane was brought in to assist with leading an aquatic features delineation and jurisdictional evaluation report for the project area at EFD. After field data collection and cross-referencing a previously developed evaluation and USACE determination, it became evident that the project was facing a conundrum. The previous USACE determination had set the stage to extend Section 404 jurisdiction across several non-WOTUS features within the project area resulting in the need for a PCN under NWP 14. In turn, this would scale the NEPA CE into an EA and significantly disrupt the overall project schedule. Mr. Lane worked carefully to examine past and new data and engaged the USACE Galveston District to negotiate a reasonable path forward for HAS. Ultimately, Mr. Lane was able to obtain an AJD in record time that resulted in reversing previous WOTUS determinations. The end result was no USACE permit required, maintenance of the CE approach with FAA, and keeping the project on schedule. Mr. Lane received a personal thank you from the Director of Planning & Development for his efforts.

Project experience – Energy

Driftwood LNG Regulatory Due Diligence

Project Manager |
Woodside Energy | Houston, Texas, USA |
August - October 2024

Woodside Energy contracted GHD to perform a regulatory due diligence review of the permits acquired to date by Tellurian, Inc. towards their development of the Driftwood LNG facility and associated pipelines in Lake Charles, LA. Mr. Lane led the team in the development of a comprehensive regulatory review matrix and timelines to facilitate Woodside's acquisition of the facilities. This effort included a fast-paced, detailed review of all permits obtained by Tellurian and regulatory correspondence to identify any gaps or critical path items, including permits that would require renewal to continue the development of the project. Woodside ultimately completed the acquisition of Tellurian in October 2024 and has continued the development of the facility under the new name of Louisiana LNG.

South Texas Endangered Plant Surveys

Project Manager |
Railroad Commission of Texas | Freer, Texas, USA |
July 2024

The Railroad Commission of Texas (RRC) required support completing presence/absence surveys for two endangered plant species in South Texas in support of their federally-funded abandoned well-plugging program. Mr. Lane worked closely with RRC staff to develop a Department of Interior (DOI) scope of work and methodology to execute the surveys and develop a report with a rapid turnaround in order for the RRC's well-plugging contractor to move forward with their activities. Mr. Lane led survey work at 28 wells in Duval and Webb Counties and oversaw report development getting the project completed within one month of the initial request, gaining DOI approval for RRC's contractor to proceed.

Career history

2024 - present	GHD, Natural Resources Technical Director
2016 - 2024	Freese and Nichols, Inc., Environmental Project Manager
2013 - 2016	Environmental Institute of Houston, Research Assistant

Jacqueline Prescott PWS

Senior Project Manager | Natural Resources

Location

Houston, Texas, USA

Experience

12 years

Qualifications/Accreditations

- Professional Wetland Scientist (PWS) #3113
- U.S. Fish and Wildlife Service (USFWS) permitted biologist, Houston toad # ESPER0029730
- BS, Environmental Geosciences, Texas A&M University (2013)

Key Technical Skills

- Project Management
- Wetland Science/Delineation/Mitigation/Restoration
- Clean Water Act (CWA) Section 404 Permitting
- Endangered Species Act
- National Environmental Policy Act (NEPA)

Memberships

- Society of Wetland Scientists
- Women in Transportation Seminar (WTS)
- North Houston Association (NHA)
- Bayou Land Conservancy

Relevant experience summary

Ms. Prescott is a Professional Wetland Scientist and USFWS permitted biologist with 12 years of experience specializing in NEPA documentation, wetland and waterbody delineations, functional assessments, mitigation planning, biological assessments and evaluations, special status species assessments, bird nest surveys, environmental site assessments (ESA), resource impact evaluations and permitting, and agency coordination. Ms. Prescott has completed a variety of municipal and public infrastructure projects involving federal and state funding including environmental reviews and grant documentation for Categorical Exclusions (CE), and Environmental Assessments (EA), CWA Section 404/401 and Rivers and Harbors Act Section 9/10 permits, and Phase I/II ESAs. Ms. Prescott maintains excellent working relationships with state and federal agencies including the U.S. Army Corps of Engineers (USACE), the Environmental Protection Agency (EPA), USFWS, Texas Parks and Wildlife Department (TPWD), the Bureau of Land Management (BLM), and the Texas Commission on Environmental Quality (TCEQ). Her tenure as an environmental consultant has provided her with the opportunity to serve several key clients including the Texas Department of Transportation (TxDOT), Federal Aviation Administration (FAA), the Port of Houston Authority (POHA), Harris County Engineering Department (HCED), and Harris County Flood Control District (HCFCD).

Project experience – Water Resources

Port of Houston Authority U-Shaped Property

Project Manager
Port of Houston Authority | Seabrook, Harris County, Texas, USA |
2016 – 2022

The project included the development of an industrial port facility on approximately 78-acres of land in Seabrook, Texas. As part of the 2016 General Environmental Services Contract, Ms. Prescott completed several resource studies for the property. These services included a wetland and waterbody delineation, a threatened and endangered (T&E) species assessment, and a cultural resources review for the project. The project received an approved jurisdictional determination (AJD) on September 29, 2017 (SWG-2016-01028). In support of the CWA Section 404 permit with the USACE, Ms. Prescott conducted a wetland functional assessment for the waters of the U.S. within the site. Upon evaluation of the mitigation options available at the time of this project, Ms. Prescott assisted in the design of a permittee-responsible mitigation plan that would compensate for unavoidable impacts to waters of the U.S. as a result of the project. Ms. Prescott continued to support the Port of Houston Authority with permitting tasks under the 2020

General Environmental Services Contract and facilitated a re-evaluation of the project in 2022.

Highland Ridge and Highland Estates Subdivisions Drainage Improvement Project (UPIN 19102MF13001)

Environmental Lead
Harris County Engineering Department | Houston, Harris County, Texas, USA |
2021-2024

The project included drainage improvements and construction of a stormwater detention basin along channel O119-00-00 in The Highlands, Texas. Harris County Engineering Department (HCED) designed the project to reduce future flood losses and damages to properties within the Highland Ridge and Highland Estates community by increasing the stormwater volume conveyance from the subdivisions to the O119-00-00 channel. Ms. Prescott conducted a wetland and waterbody delineation, T&E species evaluation, and assisted in the preparation of the USACE Individual Permit (IP) application. As part of the IP application, Ms. Prescott conducted a wetland functional assessment, evaluated project impacts, performed an alternatives analysis, facilitated a Tier II water quality certification, and responded to comments from the USACE. The IP was issued by the USACE on July 1, 2024 (SWG-20023-00109).

Project experience – Transportation

State Highway 249 Extension

Project Manager
Texas Department of Transportation | Grimes County, Texas, USA |
2018 –2019

Ms. Prescott played a key role in this 10-mile public roadway construction project funded through TxDOT in Grimes County, Texas. Ms. Prescott was responsible for completing the threatened and endangered species surveys for the Houston toad (*Bufo houstonensis*), Red-cockaded woodpecker (*Leuconotopicus borealis*), and Navasota ladies' tresses (*Spiranthes parksii*). She was also responsible for conducting the wetland and waterbody delineation of the study area as well as coordinating with the landowners for right-of-entry and access permissions. Upon completion of the natural resources survey work, Ms. Prescott prepared an impacts assessment and worked with TxDOT engineers and the team to reduce and minimize impacts to the environment. The project team was successful in reducing impacts for the project and managed to keep the impacts below the Section 404 Nationwide Permit 14 (*Transportation*) thresholds. Ms. Prescott not only prepared the permit application but also performed the required compliance monitoring during construction to ensure that the USACE permit requirements were upheld. Ms. Prescott also played a critical role in coordinating and planning the mitigation evaluation and purchase effort.

US 59 from Fostoria Road to SL 573 (CSJ 0177-0003-096)

Project Manager
Texas Department of Transportation | Montgomery and Liberty Counties, Texas, USA |
2018-2020

The project included highway improvements for a 4.47-mile segment of U.S. Highway 59 from Fostoria Road to State Loop 573 in Montgomery and Liberty Counties, Texas. Improvements included widening US-59 from a four-lane divided highway to a six-lane divided highway with two-lane frontage roads; the expansion of a bridge over the East Fork San Jacinto River; the addition of two bridges; the replacement of one bridge; the addition of limited bicycle and pedestrian accommodations; and the installation of a detention basin. Ms. Prescott was the overall project manager responsible for completing the wetland and waterbody delineation, conditional and functional assessment, mitigation planning, and overseeing, coordinating, and obtaining an Individual Permit from the Galveston District USACE. Ms. Prescott also assisted the USACE in providing responses to public comments and attended the USACE pre-application meeting which was held on March 13, 2018. The final permit was issued on January 9, 2020.

SH 36/US 190 Phase II (CSJs 0185-01-030, 0185-02-036)

Project Manager
Texas Department of Transportation | Rogers, Bell and Milam Counties, Texas, USA |
2018-2020

The project included roadway widening from a two lane to a four-lane roadway and an alignment shift of the northeastern end of the project area. The project area was previously delineated in 2005 and NWP 14 PCN was submitted to the Ft. Worth District USACE in 2006 for both Phase I and Phase II of the project. Phase I of the project was constructed; however, Phase II had not been constructed and the prior NWP 14 authorization expired. Ms. Prescott prepared an updated delineation, conditional and functional assessment, mitigation plan, and an NWP 14 PCN for Phase II of the project. As the project manager, Ms. Prescott maintained frequent communication with TxDOT and the USACE to confirm strategy and obtain a timely permit. Ms. Prescott provided mitigation credit documentation of already purchased credits prior to the 2008 Mitigation Rule. This documentation reduced the number of new credits needed to compensate for unavoidable impacts of Phase

II. Ms. Prescott successfully navigated the Section 404 process which resulted in receiving a timely NWP 14 authorization on January 22, 2020, under SWF-2006-00327.

Barbours Cut Terminal Restoration and Upgrade - MARAD EA

Environmental Scientist
Port of Houston Authority | Houston, Texas, USA |
2021-2022

Ms. Prescott was part of the team allocated to prepare the appropriate permit modification and environmental assessment for the Port of Houston Authority's restoration and upgrade of Wharves 4, 5, and 6 and adjacent container yards within the Barbours Cut Terminal. Ms. Prescott worked to complete the natural resources fieldwork which included biological field surveys or protected species and migratory birds, as well as a hazardous materials assessment and wetland and waterbodies evaluation. Ms. Prescott also prepared sections of the EA document for the Department of Transportation maritime Administration (MARAD) and facilitated responses to comments from project stakeholders. The EA FONSI was issued by MARAD on July 21, 2022.

George Bush Intercontinental (IAH) RON Parking Terminal A North Infill Project

Environmental Scientist
Houston Airport System | Houston, Texas, USA |
2022

The project involved expanding a remain-overnight (RON) infill pad located northwest of the north concourse of Terminal A at the George Bush Intercontinental Airport (IAH). Ms. Prescott assisted with the preparation of a categorical exclusion (CE) in accordance with the Federal Aviation Administration (FAA) Order 1050.F and 5050.4B. Ms. Prescott assisted in the preparation of the CE documentation including an evaluation of wetlands and waterbodies, a hazardous materials assessment, a cultural resources evaluation, and preparation of the FAA CATEX Checklist. The CE for the project was issued on June 3, 2022.

Project experience – NEPA Compliance & Environmental Impact Analysis

City of El Campo (2022-100193-RMP) Drainage and Storm Sewer Improvements

Project Manager
City of El Campo | Wharton County, Texas, USA |
2024

The City of El Campo proposes to address drainage improvements to repair deteriorating drainage infrastructure within the south side of the City of El Campo, Wharton County, Texas. This project aims to reduce localized and regional flooding by increasing the conveyance capacity in the runoff from the neighborhood to nearby waterbodies, such as the Tres Palacios River, and reduce the flooding risk in residential areas. The City of El Campo plans to regrade approximately 12, 950 feet of roadside ditches, replace 2,480 feet of driveway, and install an underground storm sewer along a 1,330-foot-long segment of Wright Street, south of Morton Avenue. This project is received funds through the HUD CDBG-MIT grant administered by the GLO (#24-065-02--E481). Ms. Prescott was responsible for creating the Environmental Review Record for the project which included background reviews and EA documentation along with coordinating the FONSI, response to public comments, and the release of funds. The FONSI was certified on July 31, 2024, and authorization to utilize grant funds was received on September 19, 2024.

Hunter Solar

Project Manager
Torch Clean Energy | Bennett, Arapahoe County, Colorado, USA |
2020-2021

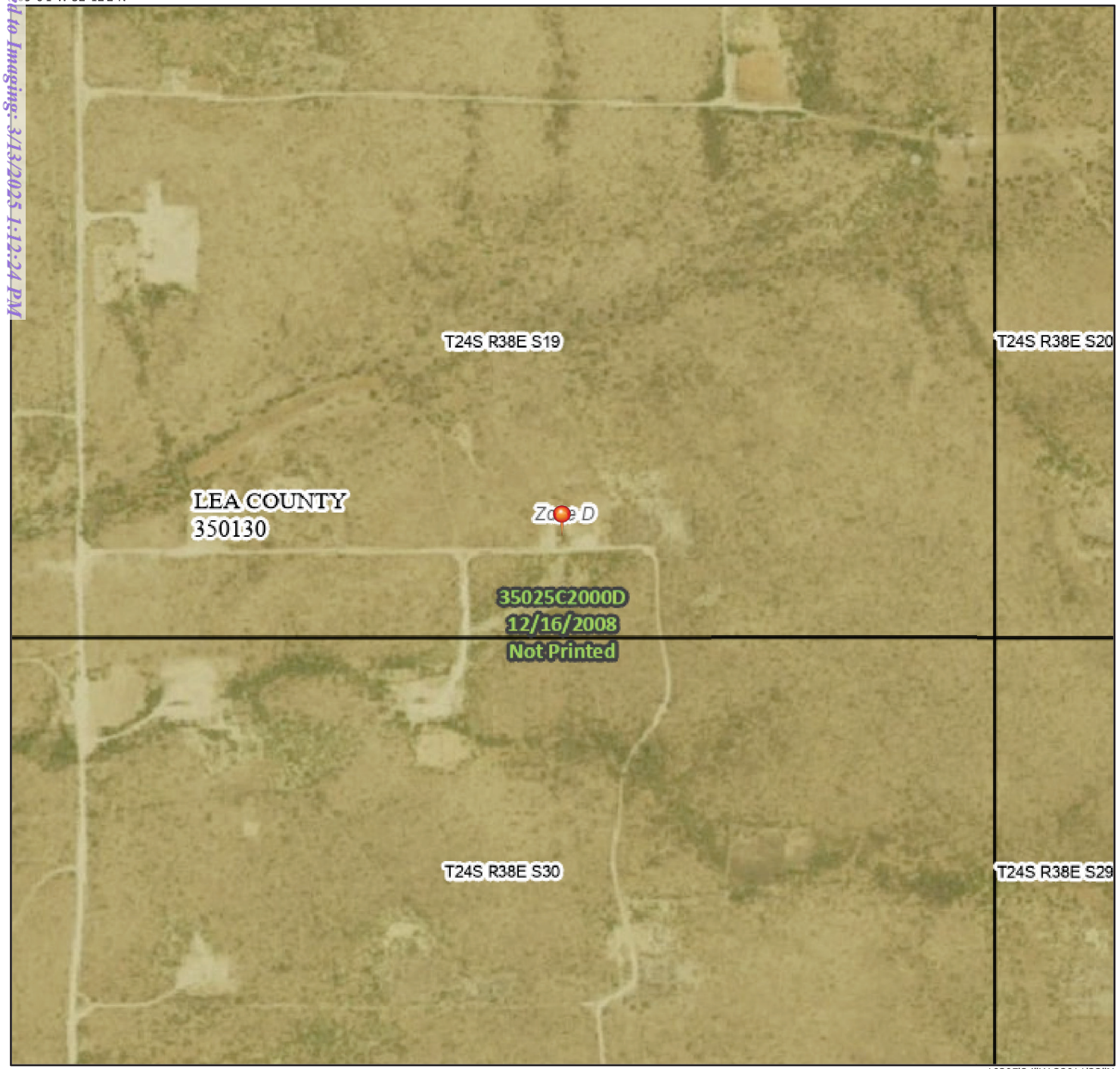
The project included the installation of a 75-megawatt alternating current solar generation facility on 571 acres of agricultural land in Arapahoe County, Colorado. Ms. Prescott served as the project manager and prepared the EA documentation following the U.S. Department of Agriculture (USDA) Rural Utilities Service (RUS) Grant Program requirements. Ms. Prescott was also responsible for attending all project meetings and responding to public comments. The FONSI was received on July 2, 2021.

Career history

2025 - present	GHD, Natural Resources Senior Project Manager
2021 - 2025	Cypress Environmental Consulting, Natural Resources Program Lead
2013 - 2021	Spirit Environmental, Project Manager

National Flood Hazard Layer FIRMette

103°6'1"W 32°12'2"N



103°5'24"W 32°11'32"N

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

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 — Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- 513 — Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 9/23/2024 at 10:52 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

U.S. Fish and Wildlife Service
National Wetlands Inventory

SCOUT WDDU #137

August 20, 2024

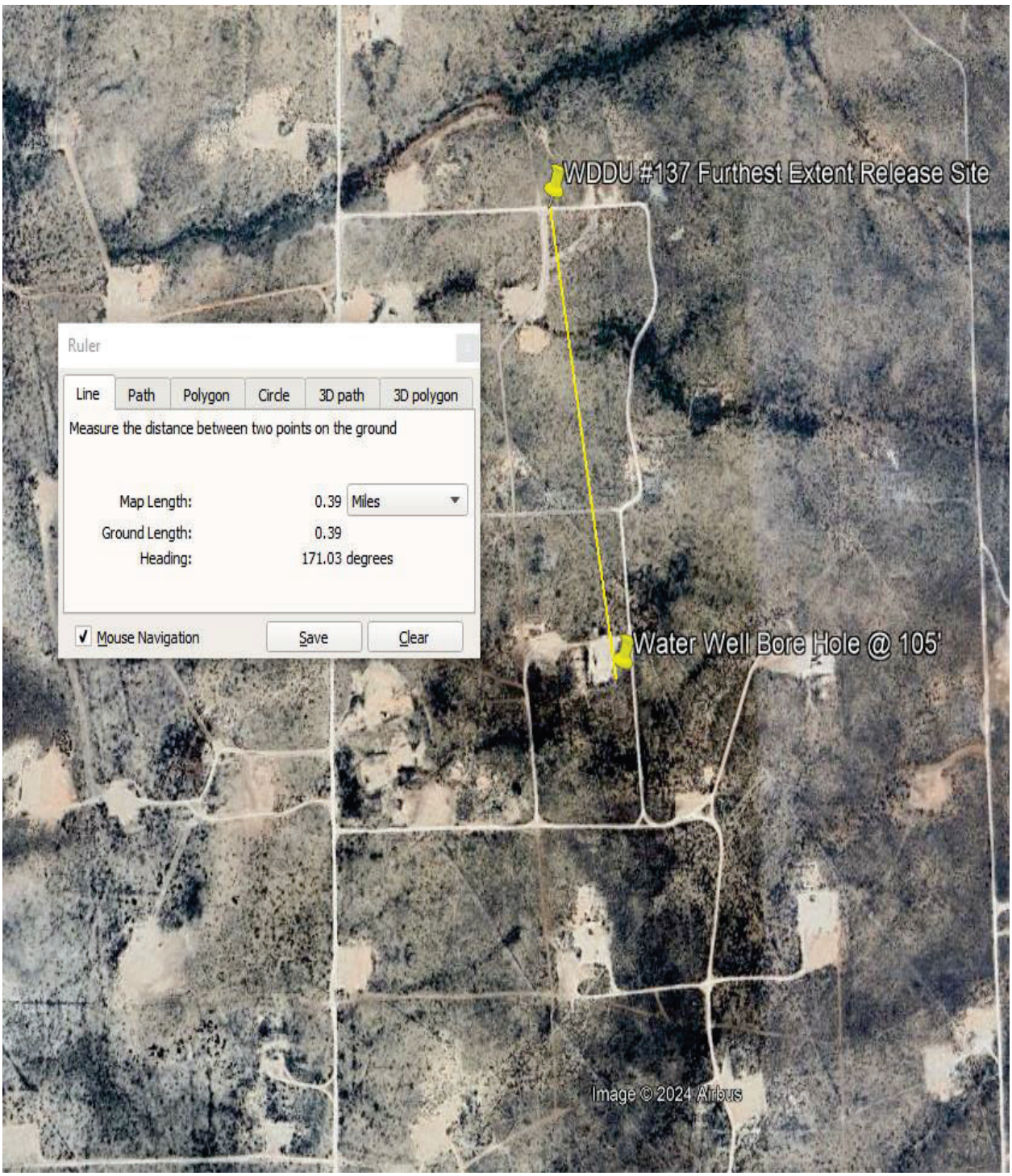
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Scout Energy
WDDU #137 Fluid Release Water Bore Hole
Drilled May 15th, 2024
Drill Site to Fluid Release



WDDU 137 Karst Mapper

0 0.03 0.05 0.1 mi

N

New Mexico State Land Office

Disclaimer:
The New Mexico State Land Office assumes no responsibility or liability for, or in connection with the accuracy, reliability or use of the information provided herein with respect to State Land Office data or data from other sources.

Data pertaining to New Mexico State Trust Lands are provisional and subject to revision, and do not constitute an official record of title. Official records may be reviewed at the New Mexico State Land Office in Santa Fe, New Mexico.

Map Created: 9/23/2024

- User drawn points
- Oil and Gas Leasing Restrictions
- Energy Leases
- Agricultural Leases
- Oil and Gas Leases
- Minerals Leases
- Commercial Leases

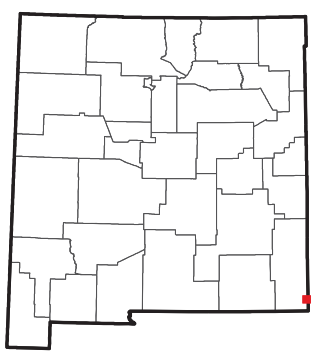
New Mexico State Trust Lands

- Subsurface Estate
- Surface Estate
- Both Estates

Karst_Potential_NM

Potential

- High
- Medium
- Low



Appendix B
Well Bore Data

MCollier@h-r-enterprises.com, JHawley@h-r-enterprises.com
575-909-0326 575-605-3471

Soil Bore Log

Project:	Scout Energy WDDU #134	**Date:**	5/14/24
Type:	Exploratory Water Bore	**Location:**	32.190699,-103.094885

Depth	Soil Type	Classification	Comments
0-15'	caliche	N/A	Caliche-100%
15-35'	Dry sand	N/A	100% sand
35-60'	Sandy Clay	N/A	40% sand-60%clay
60-105'	Sandstone/Red Clay	N/A	Sandstone-15% Red Clay-85%
GW=Groundwater			No GW-5/14/24 No GW-5/17/24
			Total Depth 105'
		Drillers Signature:	
		NMOSE Drillers License Number: WD-1862	

Page 1 of 1

Attachment B

Laboratory Analytical Reports and Chain-of-Custody Documentation

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 06, 2024

DEEDEE WHITTINGTON

GHD

11451 KATY FWY #400

HOUSTON, TX 77079

RE: WDDU #137

Enclosed are the results of analyses for samples received by the laboratory on 11/20/24 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB 01 - 112024 - 2	H247096-01	Soil	20-Nov-24 09:48	20-Nov-24 16:00
SB 01 - 112024 - 4	H247096-02	Soil	20-Nov-24 09:50	20-Nov-24 16:00
SB 02 - 112024 - 2	H247096-03	Soil	20-Nov-24 10:30	20-Nov-24 16:00
SB 02 - 112024 - 4	H247096-04	Soil	20-Nov-24 10:35	20-Nov-24 16:00
SB 03 - 112024 - 2	H247096-05	Soil	20-Nov-24 09:40	20-Nov-24 16:00
SB 03 - 112024 - 4	H247096-06	Soil	20-Nov-24 09:42	20-Nov-24 16:00
SB 04 - 112024 - 2	H247096-07	Soil	20-Nov-24 10:40	20-Nov-24 16:00
SB 04 - 112024 - 4	H247096-08	Soil	20-Nov-24 10:42	20-Nov-24 16:00
SB 05 - 112024 - 2	H247096-09	Soil	20-Nov-24 11:00	20-Nov-24 16:00
SB 05 - 112024 - 4	H247096-10	Soil	20-Nov-24 11:02	20-Nov-24 16:00
SB 06 - 112024 - 2	H247096-11	Soil	20-Nov-24 11:20	20-Nov-24 16:00
SB 06 - 112024 - 4	H247096-12	Soil	20-Nov-24 11:22	20-Nov-24 16:00
SB 07 - 112024 - 2	H247096-13	Soil	20-Nov-24 11:42	20-Nov-24 16:00
SB 07 - 112024 - 4	H247096-14	Soil	20-Nov-24 11:44	20-Nov-24 16:00
SB 08 - 112024 - 2	H247096-15	Soil	20-Nov-24 11:46	20-Nov-24 16:00
SB 08 - 112024 - 4	H247096-16	Soil	20-Nov-24 11:48	20-Nov-24 16:00
SB 09 - 112024 - 2	H247096-17	Soil	20-Nov-24 12:02	20-Nov-24 16:00
SB 09 - 112024 - 4	H247096-18	Soil	20-Nov-24 12:04	20-Nov-24 16:00
SB 10 - 112024 - 2	H247096-19	Soil	20-Nov-24 12:16	20-Nov-24 16:00
SB 10 - 112024 - 4	H247096-20	Soil	20-Nov-24 12:18	20-Nov-24 16:00
SB 11 - 112024 - 2	H247096-21	Soil	20-Nov-24 12:25	20-Nov-24 16:00
SB 11 - 112024 - 4	H247096-22	Soil	20-Nov-24 12:27	20-Nov-24 16:00
SB 12 - 112024 - 4	H247096-23	Soil	20-Nov-24 12:42	20-Nov-24 16:00
SB 13 - 112024 - 4	H247096-24	Soil	20-Nov-24 12:55	20-Nov-24 16:00
SB 14 - 112024 - 4	H247096-25	Soil	20-Nov-24 13:04	20-Nov-24 16:00
SB 15 - 112024 - 4	H247096-26	Soil	20-Nov-24 13:20	20-Nov-24 16:00

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 01 - 112024 - 2

H247096-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.1 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112114	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112114	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112114	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*89.9 %*	*48.2-134*		*4112114*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.4 %*	*49.1-148*		*4112114*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**463**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 01 - 112024 - 4

H247096-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.4 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112114	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112114	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112114	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*81.4 %*	*48.2-134*		*4112114*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*79.6 %*	*49.1-148*		*4112114*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**86.9**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 02 - 112024 - 2

H247096-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.9 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*81.6 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*79.8 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**333**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 02 - 112024 - 4

H247096-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.2 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*94.0 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*92.1 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**130**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 03 - 112024 - 2

H247096-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.0 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*104 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*100 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1540**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 03 - 112024 - 4

H247096-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.8 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*107 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*101 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1080**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 04 - 112024 - 2

H247096-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.7 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*90.1 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*84.3 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**437**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 04 - 112024 - 4

H247096-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*98.2 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*99.9 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*92.9 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**86.0**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 05 - 112024 - 2

H247096-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*98.1 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*103 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*98.6 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**587**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 05 - 112024 - 4

H247096-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.9 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*101 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*98.3 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**103**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 06 - 112024 - 2

H247096-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.9 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*82.9 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*77.4 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**56.7**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 06 - 112024 - 4

H247096-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.2 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*93.8 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*91.5 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**36.5**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 07 - 112024 - 2

H247096-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.0 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*88.2 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*81.2 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**244**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 07 - 112024 - 4

H247096-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112132	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.6 %*	*71.5-134*		*4112132*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*100 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*93.7 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**166**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 08 - 112024 - 2

H247096-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112133*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*88.1 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*81.9 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**408**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 08 - 112024 - 4

H247096-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112133*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*99.6 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*96.1 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**100**		10.0	mg/kg wet	10	B243484	AES	05-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 09 - 112024 - 2

H247096-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*4112133*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*99.2 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*95.6 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**353**		10.0	mg/kg wet	10	B243484	AES	06-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 09 - 112024 - 4

H247096-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*4112133*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*106 %*	*48.2-134*		*4112115*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*102 %*	*49.1-148*		*4112115*	MS	*22-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**39.6**		10.0	mg/kg wet	10	B243484	AES	06-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 10 - 112024 - 2

H247096-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112133*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	23-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	23-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	23-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*95.6 %*	*48.2-134*		*4112115*	MS	*23-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*92.1 %*	*49.1-148*		*4112115*	MS	*23-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**633**		10.0	mg/kg wet	10	B243485	AWG	27-Nov-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 10 - 112024 - 4

H247096-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*4112133*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	23-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	23-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	23-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*104 %*	*48.2-134*		*4112115*	MS	*23-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*97.9 %*	*49.1-148*		*4112115*	MS	*23-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**815**		10.0	mg/kg wet	10	B243485	AWG	27-Nov-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 11 - 112024 - 2

H247096-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112133*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	23-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	23-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	23-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*107 %*	*48.2-134*		*4112115*	MS	*23-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*100 %*	*49.1-148*		*4112115*	MS	*23-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**787**		10.0	mg/kg wet	10	B243485	AWG	27-Nov-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 11 - 112024 - 4

H247096-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112133*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112115	MS	23-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112115	MS	23-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112115	MS	23-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*99.6 %*	*48.2-134*		*4112115*	MS	*23-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*95.3 %*	*49.1-148*		*4112115*	MS	*23-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1630**		10.0	mg/kg wet	10	B243485	AWG	27-Nov-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 12 - 112024 - 4

H247096-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112133*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112165	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112165	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112165	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*109 %*	*48.2-134*		*4112165*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*98.4 %*	*49.1-148*		*4112165*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**770**		10.0	mg/kg wet	10	B243485	AWG	27-Nov-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 13 - 112024 - 4

H247096-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*4112133*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112165	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112165	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112165	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*119 %*	*48.2-134*		*4112165*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*106 %*	*49.1-148*		*4112165*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1020**		10.0	mg/kg wet	10	B243485	AWG	27-Nov-24	EPA 300.0	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 14 - 112024 - 4

H247096-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*4112133*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112165	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112165	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112165	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*118 %*	*48.2-134*		*4112165*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*105 %*	*49.1-148*		*4112165*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**4000**		50.0	mg/kg wet	50	B243485	AES	02-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

SB 15 - 112024 - 4

H247096-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112133	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112133*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112165	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112165	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112165	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*110 %*	*48.2-134*		*4112165*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*98.6 %*	*49.1-148*		*4112165*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**164**		10.0	mg/kg wet	10	B243485	AWG	27-Nov-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112132 - Volatiles										
Blank (4112132-BLK1)				Prepared: 21-Nov-24 Analyzed: 25-Nov-24						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*ND*		mg/kg	*0.0500*		*98.5*	*71.5-134*			
LCS (4112132-BS1)				Prepared: 21-Nov-24 Analyzed: 25-Nov-24						
Benzene	2.12	0.050	mg/kg	2.00		106	82.8-130			
Toluene	2.05	0.050	mg/kg	2.00		102	86-128			
Ethylbenzene	2.05	0.050	mg/kg	2.00		103	85.9-128			
m,p-Xylene	4.11	0.100	mg/kg	4.00		103	89-129			
o-Xylene	2.01	0.050	mg/kg	2.00		100	86.1-125			
Total Xylenes	6.12	0.150	mg/kg	6.00		102	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0486*		mg/kg	*0.0500*		*97.2*	*71.5-134*			
LCS Dup (4112132-BSD1)				Prepared: 21-Nov-24 Analyzed: 25-Nov-24						
Benzene	2.09	0.050	mg/kg	2.00		105	82.8-130	1.55	15.8	
Toluene	1.99	0.050	mg/kg	2.00		99.6	86-128	2.79	15.9	
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.3	85.9-128	3.18	16	
m,p-Xylene	3.96	0.100	mg/kg	4.00		99.1	89-129	3.64	16.2	
o-Xylene	1.93	0.050	mg/kg	2.00		96.5	86.1-125	3.92	16.7	
Total Xylenes	5.89	0.150	mg/kg	6.00		98.2	88.2-128	3.73	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0492*		mg/kg	*0.0500*		*98.4*	*71.5-134*			
Batch 4112133 - Volatiles										
Blank (4112133-BLK1)				Prepared: 21-Nov-24 Analyzed: 25-Nov-24						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112133 - Volatiles										
Blank (4112133-BLK1)				Prepared: 21-Nov-24 Analyzed: 25-Nov-24						
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0513*		mg/kg	*0.0500*		*103*	*71.5-134*			
LCS (4112133-BS1)				Prepared: 21-Nov-24 Analyzed: 25-Nov-24						
Benzene	1.94	0.050	mg/kg	2.00		97.1	82.8-130			
Toluene	2.01	0.050	mg/kg	2.00		100	86-128			
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.8	85.9-128			
m,p-Xylene	4.00	0.100	mg/kg	4.00		99.9	89-129			
o-Xylene	1.90	0.050	mg/kg	2.00		95.2	86.1-125			
Total Xylenes	5.90	0.150	mg/kg	6.00		98.3	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0515*		mg/kg	*0.0500*		*103*	*71.5-134*			
LCS Dup (4112133-BSD1)				Prepared: 21-Nov-24 Analyzed: 25-Nov-24						
Benzene	1.95	0.050	mg/kg	2.00		97.5	82.8-130	0.375	15.8	
Toluene	1.98	0.050	mg/kg	2.00		99.0	86-128	1.34	15.9	
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.2	85.9-128	1.63	16	
m,p-Xylene	3.93	0.100	mg/kg	4.00		98.4	89-129	1.54	16.2	
o-Xylene	1.87	0.050	mg/kg	2.00		93.5	86.1-125	1.81	16.7	
Total Xylenes	5.80	0.150	mg/kg	6.00		96.7	88.2-128	1.63	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0515*		mg/kg	*0.0500*		*103*	*71.5-134*			

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112114 - General Prep - Organics										
Blank (4112114-BLK1)				Prepared: 21-Nov-24 Analyzed: 22-Nov-24						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*41.5*		mg/kg	*50.0*		*82.9*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*40.5*		mg/kg	*50.0*		*80.9*	*49.1-148*			
LCS (4112114-BS1)				Prepared: 21-Nov-24 Analyzed: 22-Nov-24						
GRO C6-C10	197	10.0	mg/kg	200		98.4	81.5-123			
DRO >C10-C28	179	10.0	mg/kg	200		89.3	77.7-122			
Total TPH C6-C28	375	10.0	mg/kg	400		93.9	80.9-121			
Surrogate: 1-Chlorooctane	*42.4*		mg/kg	*50.0*		*84.8*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*40.4*		mg/kg	*50.0*		*80.9*	*49.1-148*			
LCS Dup (4112114-BSD1)				Prepared: 21-Nov-24 Analyzed: 22-Nov-24						
GRO C6-C10	189	10.0	mg/kg	200		94.5	81.5-123	4.07	13	
DRO >C10-C28	185	10.0	mg/kg	200		92.7	77.7-122	3.74	15.6	
Total TPH C6-C28	374	10.0	mg/kg	400		93.6	80.9-121	0.277	18.5	
Surrogate: 1-Chlorooctane	*42.4*		mg/kg	*50.0*		*84.9*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*40.2*		mg/kg	*50.0*		*80.5*	*49.1-148*			
Batch 4112115 - General Prep - Organics										
Blank (4112115-BLK1)				Prepared: 21-Nov-24 Analyzed: 22-Nov-24						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*47.5*		mg/kg	*50.0*		*94.9*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*46.2*		mg/kg	*50.0*		*92.4*	*49.1-148*			

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112115 - General Prep - Organics										
LCS (4112115-BS1)				Prepared: 21-Nov-24 Analyzed: 22-Nov-24						
GRO C6-C10	208	10.0	mg/kg	200		104	81.5-123			
DRO >C10-C28	187	10.0	mg/kg	200		93.6	77.7-122			
Total TPH C6-C28	396	10.0	mg/kg	400		98.9	80.9-121			
Surrogate: 1-Chlorooctane	*49.1*		mg/kg	*50.0*		*98.2*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*42.8*		mg/kg	*50.0*		*85.6*	*49.1-148*			
LCS Dup (4112115-BSD1)				Prepared: 21-Nov-24 Analyzed: 22-Nov-24						
GRO C6-C10	202	10.0	mg/kg	200		101	81.5-123	3.24	13	
DRO >C10-C28	181	10.0	mg/kg	200		90.5	77.7-122	3.32	15.6	
Total TPH C6-C28	383	10.0	mg/kg	400		95.7	80.9-121	3.27	18.5	
Surrogate: 1-Chlorooctane	*50.3*		mg/kg	*50.0*		*101*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*45.6*		mg/kg	*50.0*		*91.2*	*49.1-148*			
Batch 4112165 - General Prep - Organics										
Blank (4112165-BLK1)				Prepared: 21-Nov-24 Analyzed: 25-Nov-24						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*61.3*		mg/kg	*50.0*		*123*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*56.8*		mg/kg	*50.0*		*114*	*49.1-148*			
LCS (4112165-BS1)				Prepared: 21-Nov-24 Analyzed: 25-Nov-24						
GRO C6-C10	202	10.0	mg/kg	200		101	81.5-123			
DRO >C10-C28	197	10.0	mg/kg	200		98.6	77.7-122			
Total TPH C6-C28	399	10.0	mg/kg	400		99.9	80.9-121			
Surrogate: 1-Chlorooctane	*61.4*		mg/kg	*50.0*		*123*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*56.7*		mg/kg	*50.0*		*113*	*49.1-148*			

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112165 - General Prep - Organics										
LCS Dup (4112165-BSD1)				Prepared: 21-Nov-24 Analyzed: 25-Nov-24						
GRO C6-C10	195	10.0	mg/kg	200		97.5	81.5-123	3.65	13	
DRO >C10-C28	189	10.0	mg/kg	200		94.6	77.7-122	4.08	15.6	
Total TPH C6-C28	384	10.0	mg/kg	400		96.1	80.9-121	3.86	18.5	
Surrogate: 1-Chlorooctane	*61.2*		mg/kg	*50.0*		*122*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*56.0*		mg/kg	*50.0*		*112*	*49.1-148*			

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 06-Dec-24 17:29

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B243484 - IC- Ion Chromatograph										
Blank (B243484-BLK1)				Prepared: 26-Nov-24 Analyzed: 05-Dec-24						
Chloride	ND	10.0	mg/kg wet							
LCS (B243484-BS1)				Prepared: 26-Nov-24 Analyzed: 05-Dec-24						
Chloride	244	10.0	mg/kg wet	250		97.7	85-115			
LCS Dup (B243484-BSD1)				Prepared: 26-Nov-24 Analyzed: 05-Dec-24						
Chloride	243	10.0	mg/kg wet	250		97.4	85-115	0.385	20	
Batch B243485 - IC- Ion Chromatograph										
Blank (B243485-BLK1)				Prepared: 26-Nov-24 Analyzed: 27-Nov-24						
Chloride	ND	10.0	mg/kg wet							
LCS (B243485-BS1)				Prepared: 26-Nov-24 Analyzed: 27-Nov-24						
Chloride	230	10.0	mg/kg wet	250		92.1	85-115			
LCS Dup (B243485-BSD1)				Prepared: 26-Nov-24 Analyzed: 27-Nov-24						
Chloride	245	10.0	mg/kg wet	250		97.9	85-115	6.12	20	

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

page 1 of 3

Company Name:	GHD
Project Manager:	Deedee Whittington
Address:	
City:	Midland State: TX Zip:
Phone #:	972-331-5924 Fax #:
Project #:	12649609 Project Owner: Scout Energy
Project Name:	WDDU #137
Project Location:	Lea Co, NM
Sampler Name:	J. Trevino

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	SAMPLING TIME	TPH 8015M	BTEX 8021B	Chlorides 300.0
H249090																	
1	SB01-112024-2	G	1			X					X		11/20/24	0948	X	X	X
2	SB01-112024-4					X					X			0950	X	X	X
3	SB02-112024-2					X					X			1030	X	X	X
4	SB02-112024-4					X					X			1035	X	X	X
5	SB03-112024-2					X					X			0940	X	X	X
6	SB03-112024-4					X					X			0942	X	X	X
7	SB04-112024-2					X					X			1040	X	X	X
8	SB04-112024-4					X					X			1042	X	X	X
9	SB05-112024-2					X					X			1100	X	X	X
10	SB05-112024-4					X					X			1102	X	X	X

Relinquished By: Jeanne Trev	Date: 112024 Time: 1100	Received By: Aparna	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: 11-20-24 Time:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 1.5 Corrected Temp. °C 0.9	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) AD
			Turnaround Time: Standard ☒ Rush ☐ Thermometer ID #140 Correction Factor -0.6°C
			Bacteria (only) Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 08/05/24

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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

Company Name: GHD	**BILL TO**
Project Manager: DeeDee Whittington	P.O. #:
Address:	Company:
City: State: Zip:	Attn:
Phone #: 972-331-5924 Fax #:	Address:
Project #: 12649609 Project Owner:	City:
Project Name: WDDU #137	State: Zip:
Project Location: Lea County, NM	Phone #:
Sampler Name: J. TREVINO	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH 8015M	BTEX 8021B	CHLORIDES 300.0
H247046																	
11	SB06·112024·2	G	1			✓					X		11.20.24	11:20	X	X	X
12	SB06·112024·4	G	1			✓					X		11.20.24	11:22	X	X	X
13	SB07·112024·2	G	1			✓					X		11.20.24	11:42	X	X	X
14	SB07·112024·4	G	1			✓					X		11.20.24	11:44	X	X	X
15	SB08·112024·2	G	1			✓					X		11.20.24	11:46	X	X	X
16	SB08·112024·4	G	1			✓					X		11.20.24	11:48	X	X	X
17	SB09·112024·2	G	1			✓					X		11.20.24	12:02	X	X	X
18	SB09·112024·4	G	1			✓					X		11.20.24	12:04	X	X	X
19	SB10·112024·2	G	1			✓					X		11.20.24	12:16	X	X	X
20	SB10·112024·4	G	1			✓					X		11.20.24	12:18	X	X	X

Relinquished By: Jeanne Trev	Date: 112024 Time: 1600	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: 11-20-24 Time:	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 1.5 Corrected Temp. °C 0.9	Sample Condition Cool: ☐ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS:

Turnaround Time: Standard ☒ Rush ☐

Thermometer ID #140
Correction Factor -0.6°C

Bacteria (only) Sample Condition
Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.3 08/05/24

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST†

page 3 of 3

Company Name:	GHD
Project Manager:	Deedee Whittington
Address:	
City:	Midland
State:	TX
Zip:	
Phone #:	972-331-5924
Fax #:	
Project #:	12649609
Project Owner:	Scout Energy
Project Name:	WDDO # 137
Project Location:	Lea Co. NM
Sampler Name:	J. Trevino

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	SAMPLING TIME	TPH 8015M	BTEX 8021B	Chlorides 300.0
H247016																	
21	SB11-112024-2	G	1			X					X		11/20/24	1225	X	X	X
22	SB11-112024-4	G	1			X					X			1227	X	X	X
23	SB12-112024-4	G	1			X					X			1240	X	X	X
24	SB13-112024-4	G	1			X					X			1255	X	X	X
25	SB14-112024-4	G	1			X					X			1304	X	X	X
26	SB15-112024-4	G	1			X					X			1320	X	X	X

Relinquished By:	Date: 11.2024	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Joanne Trev	Time: 1600	APaniagua	All Results are emailed. Please provide Email address:
Relinquished By:	Date: 11.20.24	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 1.5	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) AP	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C 0.9			Thermometer ID #140 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 08/05/24

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December 12, 2024

DEEDEE WHITTINGTON

GHD

11451 KATY FWY #400

HOUSTON, TX 77079

RE: WDDU #137

Enclosed are the results of analyses for samples received by the laboratory on 11/21/24 16:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB 16 - 112124 - 2	H247158-01	Soil	21-Nov-24 09:04	21-Nov-24 16:17
SB 16 - 112124 - 4	H247158-02	Soil	21-Nov-24 09:06	21-Nov-24 16:17
SB 17 - 112124 - 2	H247158-03	Soil	21-Nov-24 09:32	21-Nov-24 16:17
SB 17 - 112124 - 4	H247158-04	Soil	21-Nov-24 09:34	21-Nov-24 16:17
SB 18 - 112124 - 4	H247158-05	Soil	21-Nov-24 09:42	21-Nov-24 16:17
SB 19 - 112124 - 2	H247158-06	Soil	21-Nov-24 09:46	21-Nov-24 16:17
SB 19 - 112124 - 4	H247158-07	Soil	21-Nov-24 09:48	21-Nov-24 16:17
SB 20 - 112124 - 4	H247158-08	Soil	21-Nov-24 12:50	21-Nov-24 16:17
SB 20 - 112124 - 10	H247158-09	Soil	21-Nov-24 13:00	21-Nov-24 16:17
SB 21 - 112124 - 2	H247158-13	Soil	21-Nov-24 14:00	21-Nov-24 16:17
SB 21 - 112124 - 4	H247158-14	Soil	21-Nov-24 14:02	21-Nov-24 16:17
SB 22 - 112124 - 4	H247158-15	Soil	21-Nov-24 14:05	21-Nov-24 16:17
SB 22 - 112124 - 10	H247158-16	Soil	21-Nov-24 14:08	21-Nov-24 16:17
DUP 01 - 112124	H247158-20	Soil	21-Nov-24 00:00	21-Nov-24 16:17
DUP 02 - 112124	H247158-21	Soil	21-Nov-24 00:00	21-Nov-24 16:17

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

SB 16 - 112124 - 2

H247158-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*98.6 %*	*71.5-134*		*4112205*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*81.4 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*68.5 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**128**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

SB 16 - 112124 - 4

H247158-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.9 %*	*71.5-134*		*4112205*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*93.8 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*80.8 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**296**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

SB 17 - 112124 - 2

H247158-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.9 %*	*71.5-134*		*4112205*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*96.2 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*81.7 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**525**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

SB 17 - 112124 - 4

H247158-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.3 %*	*71.5-134*		*4112205*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*103 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*90.0 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**949**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

SB 18 - 112124 - 4

H247158-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*98.1 %*	*71.5-134*		*4112205*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*99.3 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*84.5 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1110**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

SB 19 - 112124 - 2

H247158-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.4 %*	*71.5-134*		*4112205*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*70.8 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*58.0 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**326**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

SB 19 - 112124 - 4

H247158-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.6 %*	*71.5-134*		*4112205*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*105 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*87.4 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**310**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

SB 20 - 112124 - 4

H247158-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*98.5 %*	*71.5-134*		*4112205*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*105 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*87.8 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1250**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

SB 20 - 112124 - 10

H247158-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.7 %*	*71.5-134*		*4112205*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*108 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*91.0 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**595**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

SB 21 - 112124 - 2

H247158-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.1 %*	*71.5-134*		*4112205*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*95.7 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*80.4 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1350**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

SB 21 - 112124 - 4

H247158-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112205	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*98.6 %*	*71.5-134*		*4112205*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*105 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*90.4 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1620**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

SB 22 - 112124 - 4

H247158-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112207*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*91.0 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*76.2 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**91.2**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

SB 22 - 112124 - 10

H247158-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112207*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*105 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*89.0 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**294**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

DUP 01 - 112124

H247158-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*4112207*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*109 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*92.1 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**366**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

DUP 02 - 112124

H247158-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112207	JH	25-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*4112207*	JH	*25-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112168	MS	25-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*109 %*	*48.2-134*		*4112168*	MS	*25-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*91.9 %*	*49.1-148*		*4112168*	MS	*25-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**294**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112205 - Volatiles										
Blank (4112205-BLK1)				Prepared: 22-Nov-24 Analyzed: 25-Nov-24						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*ND*		mg/kg	*0.0500*		*97.7*	*71.5-134*			
LCS (4112205-BS1)				Prepared: 22-Nov-24 Analyzed: 25-Nov-24						
Benzene	2.17	0.050	mg/kg	2.00		108	82.8-130			
Toluene	2.07	0.050	mg/kg	2.00		103	86-128			
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	85.9-128			
m,p-Xylene	4.10	0.100	mg/kg	4.00		102	89-129			
o-Xylene	2.01	0.050	mg/kg	2.00		100	86.1-125			
Total Xylenes	6.10	0.150	mg/kg	6.00		102	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0485*		mg/kg	*0.0500*		*96.9*	*71.5-134*			
LCS Dup (4112205-BSD1)				Prepared: 22-Nov-24 Analyzed: 25-Nov-24						
Benzene	2.02	0.050	mg/kg	2.00		101	82.8-130	7.15	15.8	
Toluene	1.94	0.050	mg/kg	2.00		96.9	86-128	6.40	15.9	
Ethylbenzene	1.94	0.050	mg/kg	2.00		96.9	85.9-128	5.97	16	
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.4	89-129	6.07	16.2	
o-Xylene	1.88	0.050	mg/kg	2.00		94.2	86.1-125	6.29	16.7	
Total Xylenes	5.74	0.150	mg/kg	6.00		95.7	88.2-128	6.14	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0486*		mg/kg	*0.0500*		*97.1*	*71.5-134*			
Batch 4112207 - Volatiles										
Blank (4112207-BLK1)				Prepared: 22-Nov-24 Analyzed: 25-Nov-24						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112207 - Volatiles										
Blank (4112207-BLK1)				Prepared: 22-Nov-24 Analyzed: 25-Nov-24						
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0519*		mg/kg	*0.0500*		*104*	*71.5-134*			
LCS (4112207-BS1)				Prepared: 22-Nov-24 Analyzed: 25-Nov-24						
Benzene	1.98	0.050	mg/kg	2.00		99.1	82.8-130			
Toluene	2.02	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.9	85.9-128			
m,p-Xylene	4.00	0.100	mg/kg	4.00		100	89-129			
o-Xylene	1.91	0.050	mg/kg	2.00		95.7	86.1-125			
Total Xylenes	5.91	0.150	mg/kg	6.00		98.6	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0517*		mg/kg	*0.0500*		*103*	*71.5-134*			
LCS Dup (4112207-BSD1)				Prepared: 22-Nov-24 Analyzed: 25-Nov-24						
Benzene	1.88	0.050	mg/kg	2.00		93.8	82.8-130	5.42	15.8	
Toluene	1.98	0.050	mg/kg	2.00		98.8	86-128	2.28	15.9	
Ethylbenzene	1.98	0.050	mg/kg	2.00		98.8	85.9-128	1.07	16	
m,p-Xylene	3.97	0.100	mg/kg	4.00		99.1	89-129	0.880	16.2	
o-Xylene	1.91	0.050	mg/kg	2.00		95.4	86.1-125	0.277	16.7	
Total Xylenes	5.87	0.150	mg/kg	6.00		97.9	88.2-128	0.684	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0518*		mg/kg	*0.0500*		*104*	*71.5-134*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112168 - General Prep - Organics										
Blank (4112168-BLK1)				Prepared: 21-Nov-24 Analyzed: 25-Nov-24						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*51.4*		mg/kg	*50.0*		*103*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*45.5*		mg/kg	*50.0*		*91.0*	*49.1-148*			
LCS (4112168-BS1)				Prepared: 21-Nov-24 Analyzed: 25-Nov-24						
GRO C6-C10	204	10.0	mg/kg	200		102	81.5-123			
DRO >C10-C28	182	10.0	mg/kg	200		90.8	77.7-122			
Total TPH C6-C28	385	10.0	mg/kg	400		96.3	80.9-121			
Surrogate: 1-Chlorooctane	*50.6*		mg/kg	*50.0*		*101*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*42.7*		mg/kg	*50.0*		*85.5*	*49.1-148*			
LCS Dup (4112168-BSD1)				Prepared: 21-Nov-24 Analyzed: 25-Nov-24						
GRO C6-C10	206	10.0	mg/kg	200		103	81.5-123	0.969	13	
DRO >C10-C28	189	10.0	mg/kg	200		94.5	77.7-122	3.94	15.6	
Total TPH C6-C28	394	10.0	mg/kg	400		98.6	80.9-121	2.38	18.5	
Surrogate: 1-Chlorooctane	*52.9*		mg/kg	*50.0*		*106*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*44.7*		mg/kg	*50.0*		*89.4*	*49.1-148*			

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:48

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B243510 - IC- Ion Chromatograph										
Blank (B243510-BLK1)				Prepared: 27-Nov-24 Analyzed: 10-Dec-24						
Chloride	ND	10.0	mg/kg wet							
LCS (B243510-BS1)				Prepared: 27-Nov-24 Analyzed: 10-Dec-24						
Chloride	238	10.0	mg/kg wet	250		95.1	85-115			
LCS Dup (B243510-BSD1)				Prepared: 27-Nov-24 Analyzed: 10-Dec-24						
Chloride	238	10.0	mg/kg wet	250		95.1	85-115	0.00	20	

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 OF 3

Company Name: GHD		**BILL TO**	
Project Manager: Deedee Whittington		P.O. #:	
Address:		Company:	
City: MIDLAND	State: TX Zip:	Attn:	
Phone #: 972-331-5924	Fax #:	Address:	
Project #: WDDU #137	Project Owner: Scout Energy	City:	
Project Name: 126•49609		State: Zip:	
Project Location: Lea Co, NM		Phone #:	
Sampler Name: J. TREVINO		Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015 M	BTEX 8021B	Chlorides 300.0								
H247158																									
1	SB16·112124·2	G	1			✓					✓		11·21·24	09:04	X	X	X								
2	SB16·112124·4	G	1			✓					✓		11·21·24	09:06	X	X	X								
3	SB17·112124·2	G	1			✓					✓		11·21·24	09:32	X	X	X								
4	SB17·112124·4	G	1			✓					✓		11·21·24	09:34	X	X	X								
5	SB18·112124·4	G	1			✓					✓		11·21·24	09:42	X	X	X								
6	SB19·112124·2	G	1			✓					✓		11·21·24	09:46	X	X	X								
7	SB19·112124·4	G	1			✓					✓		11·21·24	09:48	X	X	X								
8	SB20·112124·4	G	1			✓					✓		11·21·24	12:50	X	X	X								
9	SB20·112124·10	G	1			✓					✓		11·21·24	13:00	X	X	X								
10	SB20·112124·15	G	1			✓					✓		11·21·24	13:05	X	X	X								

Hold

Relinquished By: Jeanne Trev	Date: 11·21·24	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1617		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time: Standard ☒ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C 4.1 / 3.5	Cool: ☐ Yes ☐ No Intact: ☑ Yes ☐ No	(Initials) AT	Thermometer ID #140 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C ____ Corrected Temp. °C ____

FORM-006 R 3.5 08/05/24

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 OF 3

Company Name: GHD	**BILL TO**
Project Manager: Deedee Whittington	P.O. #:
Address:	Company:
City: MIDLAND State: TX Zip:	Attn:
Phone #: 972.331.5924 Fax #:	Address:
Project #: 126496O9 Project Owner: Scout Energy	City:
Project Name: WDDU #137	State: Zip:
Project Location: LEA CO. NM	Phone #:
Sampler Name: J. TREVINO	Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015 M	BTEX 8021B	Chlorides 300.0	
2124158											✓							
11	SB20·112124·20	G	1			✓					✓		11·21·24	13:10	X	X	X	Hold
12	SB20·112124·30	G	1			✓					✓		11·21·24	13:15	X	X	X	Hold
13	SB21·112124·2	G	1			✓					✓		11·21·24	14:00	X	X	X	
14	SB21·112124·4	G	1			✓					✓		11·21·24	14:02	X	X	X	
15	SB22·112124·4	G	1			✓					✓		11·21·24	14:05	X	X	X	
16	SB22·112124·10	G	1			✓					✓		11·21·24	14:08	X	X	X	
17	SB22·112124·15	G	1			✓					✓		11·21·24	14:10	X	X	X	Hold
18	SB22·112124·20	G	1			✓					✓		11·21·24	14:12	X	X	X	Hold
19	SB22·112124·30	G	1			✓					✓		11·21·24	14:15	X	X	X	Hold
20	DUP01·112124	G	1			✓					✓		112124	–	X	X	X	

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Relinquished By: Joanne Trev	Date: 11.21.24 Time: 1417	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address:
			REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.1 Corrected Temp. °C 3.5	Sample Condition Cool: ☑ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) KD	Turnaround Time: Standard ☐ Rush ☑ Thermometer ID #140 Correction Factor -0.6°C	Bacteria (only) Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 08/05/24

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 OF 3

Company Name:	GHD
Project Manager:	Deedee Whittington
Address:	
City:	Midland State: TX Zip:
Phone #:	972-331-5924 Fax #:
Project #:	126496 09 Project Owner: Scout Energy
Project Name:	WDDU#137
Project Location:	LEA CO NM
Sampler Name:	JTREVINO

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015M	BTEX 8021B	Chlorides 300.00
H217158-21	DUP02·112124	G	1			✓					✓		11·21·24	—	X	X	X

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Relinquished By: Joanne Trejo	Date: 11·21·24 Time: 1419	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address: REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.1 °C Corrected Temp. °C 3.5	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) AD	Turnaround Time: Standard ☒ Rush ☐ Thermometer ID #140 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 08/05/24

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December 12, 2024

DEEDEE WHITTINGTON

GHD

11451 KATY FWY #400

HOUSTON, TX 77079

RE: WDDU #137

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 15:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB 24 - 112224 - 4	H247196-01	Soil	22-Nov-24 08:50	22-Nov-24 15:49
SB 24 - 112224 - 10	H247196-02	Soil	22-Nov-24 09:15	22-Nov-24 15:49
SB 25 - 112224 - 2	H247196-06	Soil	22-Nov-24 10:16	22-Nov-24 15:49
SB 25 - 112224 - 4	H247196-07	Soil	22-Nov-24 10:18	22-Nov-24 15:49
SB 26 - 112224 - 2	H247196-08	Soil	22-Nov-24 10:30	22-Nov-24 15:49
SB 26 - 112224 - 4	H247196-09	Soil	22-Nov-24 10:32	22-Nov-24 15:49
SB 27 - 112224 - 2	H247196-10	Soil	22-Nov-24 10:46	22-Nov-24 15:49
SB 27 - 112224 - 4	H247196-11	Soil	22-Nov-24 10:48	22-Nov-24 15:49
SB 28 - 112224 - 4	H247196-12	Soil	22-Nov-24 11:00	22-Nov-24 15:49
SB 28 - 112224 - 10	H247196-13	Soil	22-Nov-24 11:08	22-Nov-24 15:49
SB 30 - 112224 - 2	H247196-17	Soil	22-Nov-24 13:02	22-Nov-24 15:49
SB 30 - 112224 - 4	H247196-18	Soil	22-Nov-24 13:04	22-Nov-24 15:49
SB 31 - 112224 - 2	H247196-19	Soil	22-Nov-24 13:16	22-Nov-24 15:49
SB 31 - 112224 - 4	H247196-20	Soil	22-Nov-24 13:18	22-Nov-24 15:49
SB 32 - 112224 - 2	H247196-21	Soil	22-Nov-24 13:42	22-Nov-24 15:49
SB 32 - 112224 - 4	H247196-22	Soil	22-Nov-24 13:44	22-Nov-24 15:49
DUP 03 - 112224	H247196-23	Soil	22-Nov-24 00:00	22-Nov-24 15:49
DUP 04 - 112224	H247196-24	Soil	22-Nov-24 00:00	22-Nov-24 15:49

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CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

SB 24 - 112224 - 4

H247196-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*4112510*	JH	*27-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*101 %*	*48.2-134*		*4112242*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*98.7 %*	*49.1-148*		*4112242*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	<10.0		10.0	mg/kg wet	10	B243508	AES	03-Dec-24	EPA 300.0	

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

SB 24 - 112224 - 10

H247196-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*4112510*	JH	*27-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*99.0 %*	*48.2-134*		*4112242*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*96.8 %*	*49.1-148*		*4112242*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**263**		10.0	mg/kg wet	10	B243508	AES	03-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

SB 25 - 112224 - 2

H247196-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*4112510*	JH	*27-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*92.5 %*	*48.2-134*		*4112242*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.8 %*	*49.1-148*		*4112242*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**768**		10.0	mg/kg wet	10	B243508	AES	03-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

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H247196-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*4112510*	JH	*27-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*95.2 %*	*48.2-134*		*4112242*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*89.9 %*	*49.1-148*		*4112242*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1200**		10.0	mg/kg wet	10	B243509	AWG	09-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

SB 26 - 112224 - 2

H247196-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112510	JH	27-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*4112510*	JH	*27-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*102 %*	*48.2-134*		*4112242*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*94.3 %*	*49.1-148*		*4112242*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**635**		10.0	mg/kg wet	10	B243509	AWG	09-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

SB 26 - 112224 - 4

H247196-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*111 %*	*48.2-134*		*4112242*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*103 %*	*49.1-148*		*4112242*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**848**		10.0	mg/kg wet	10	B243509	AWG	09-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

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H247196-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*108 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*108 %*	*48.2-134*		*4112242*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*106 %*	*49.1-148*		*4112242*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**397**		10.0	mg/kg wet	10	B243509	AWG	09-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

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H247196-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*111 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*106 %*	*48.2-134*		*4112242*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*103 %*	*49.1-148*		*4112242*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**860**		10.0	mg/kg wet	10	B243509	AWG	09-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

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H247196-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*108 %*	*48.2-134*		*4112242*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*105 %*	*49.1-148*		*4112242*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**2420**		20.0	mg/kg wet	20	B243509	AWG	10-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

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H247196-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*109 %*	*48.2-134*		*4112242*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*107 %*	*49.1-148*		*4112242*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1150**		10.0	mg/kg wet	10	B243509	AWG	09-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

SB 30 - 112224 - 2

H247196-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*104 %*	*48.2-134*		*4112242*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*96.5 %*	*49.1-148*		*4112242*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**624**		10.0	mg/kg wet	10	B243509	AWG	09-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

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H247196-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*105 %*	*48.2-134*		*4112242*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*98.1 %*	*49.1-148*		*4112242*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**458**		10.0	mg/kg wet	10	B243509	AWG	09-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

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H247196-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112242	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*98.7 %*	*48.2-134*		*4112242*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*89.8 %*	*49.1-148*		*4112242*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**322**		10.0	mg/kg wet	10	B243509	AWG	09-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

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H247196-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*115 %*	*48.2-134*		*4112511*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*119 %*	*49.1-148*		*4112511*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**507**		10.0	mg/kg wet	10	B243509	AWG	09-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

SB 32 - 112224 - 2

H247196-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*99.5 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*117 %*	*48.2-134*		*4112511*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*122 %*	*49.1-148*		*4112511*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**417**		10.0	mg/kg wet	10	B243509	AWG	09-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

SB 32 - 112224 - 4

H247196-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*121 %*	*48.2-134*		*4112511*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*126 %*	*49.1-148*		*4112511*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**800**		10.0	mg/kg wet	10	B243509	AWG	09-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

DUP 03 - 112224

H247196-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.9 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*118 %*	*48.2-134*		*4112511*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*124 %*	*49.1-148*		*4112511*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**229**		10.0	mg/kg wet	10	B243509	AWG	10-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

DUP 04 - 112224

H247196-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*100 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*118 %*	*48.2-134*		*4112511*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*121 %*	*49.1-148*		*4112511*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1140**		10.0	mg/kg wet	10	B243509	AWG	10-Dec-24	EPA 300.0	

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112510 - Volatiles										
Blank (4112510-BLK1)				Prepared: 25-Nov-24 Analyzed: 27-Nov-24						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0522*		mg/kg	*0.0500*		*104*	*71.5-134*			
LCS (4112510-BS1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
Benzene	2.07	0.050	mg/kg	2.00		103	82.8-130			
Toluene	2.15	0.050	mg/kg	2.00		107	86-128			
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	85.9-128			
m,p-Xylene	4.49	0.100	mg/kg	4.00		112	89-129			
o-Xylene	2.14	0.050	mg/kg	2.00		107	86.1-125			
Total Xylenes	6.64	0.150	mg/kg	6.00		111	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0522*		mg/kg	*0.0500*		*104*	*71.5-134*			
LCS Dup (4112510-BSD1)				Prepared: 25-Nov-24 Analyzed: 27-Nov-24						
Benzene	2.06	0.050	mg/kg	2.00		103	82.8-130	0.428	15.8	
Toluene	2.10	0.050	mg/kg	2.00		105	86-128	2.14	15.9	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128	2.94	16	
m,p-Xylene	4.40	0.100	mg/kg	4.00		110	89-129	2.17	16.2	
o-Xylene	2.09	0.050	mg/kg	2.00		104	86.1-125	2.77	16.7	
Total Xylenes	6.48	0.150	mg/kg	6.00		108	88.2-128	2.36	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0508*		mg/kg	*0.0500*		*102*	*71.5-134*			
Batch 4112541 - Volatiles										
Blank (4112541-BLK1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112541 - Volatiles										
Blank (4112541-BLK1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0543*		mg/kg	*0.0500*		*109*	*71.5-134*			
LCS (4112541-BS1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
Benzene	1.71	0.050	mg/kg	2.00		85.6	82.8-130			
Toluene	1.64	0.050	mg/kg	2.00		81.8	86-128			BS-3
Ethylbenzene	1.70	0.050	mg/kg	2.00		85.2	85.9-128			BS-3
m,p-Xylene	3.43	0.100	mg/kg	4.00		85.8	89-129			BS-3
o-Xylene	1.72	0.050	mg/kg	2.00		86.1	86.1-125			
Total Xylenes	5.15	0.150	mg/kg	6.00		85.9	88.2-128			BS-3
Surrogate: 4-Bromofluorobenzene (PID)	*0.0499*		mg/kg	*0.0500*		*99.9*	*71.5-134*			
LCS Dup (4112541-BSD1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
Benzene	2.05	0.050	mg/kg	2.00		102	82.8-130	17.9	15.8	QR-04
Toluene	2.02	0.050	mg/kg	2.00		101	86-128	21.2	15.9	QR-04
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128	21.8	16	QR-04
m,p-Xylene	4.30	0.100	mg/kg	4.00		108	89-129	22.5	16.2	QR-04
o-Xylene	2.16	0.050	mg/kg	2.00		108	86.1-125	22.3	16.7	QR-04
Total Xylenes	6.46	0.150	mg/kg	6.00		108	88.2-128	22.5	16.3	QR-04
Surrogate: 4-Bromofluorobenzene (PID)	*0.0534*		mg/kg	*0.0500*		*107*	*71.5-134*			

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112242 - General Prep - Organics										
Blank (4112242-BLK1)				Prepared: 22-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*57.5*		mg/kg	*50.0*		*115*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*53.3*		mg/kg	*50.0*		*107*	*49.1-148*			
LCS (4112242-BS1)				Prepared: 22-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	190	10.0	mg/kg	200		95.0	81.5-123			
DRO >C10-C28	174	10.0	mg/kg	200		87.1	77.7-122			
Total TPH C6-C28	364	10.0	mg/kg	400		91.0	80.9-121			
Surrogate: 1-Chlorooctane	*56.6*		mg/kg	*50.0*		*113*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*52.4*		mg/kg	*50.0*		*105*	*49.1-148*			
LCS Dup (4112242-BSD1)				Prepared: 22-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	199	10.0	mg/kg	200		99.7	81.5-123	4.89	13	
DRO >C10-C28	183	10.0	mg/kg	200		91.3	77.7-122	4.71	15.6	
Total TPH C6-C28	382	10.0	mg/kg	400		95.5	80.9-121	4.81	18.5	
Surrogate: 1-Chlorooctane	*60.0*		mg/kg	*50.0*		*120*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*54.6*		mg/kg	*50.0*		*109*	*49.1-148*			
Batch 4112511 - General Prep - Organics										
Blank (4112511-BLK1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*62.3*		mg/kg	*50.0*		*125*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*63.4*		mg/kg	*50.0*		*127*	*49.1-148*			

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112511 - General Prep - Organics										
LCS (4112511-BS1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	203	10.0	mg/kg	200		101	81.5-123			
DRO >C10-C28	207	10.0	mg/kg	200		103	77.7-122			
Total TPH C6-C28	410	10.0	mg/kg	400		102	80.9-121			
Surrogate: 1-Chlorooctane	*61.8*		mg/kg	*50.0*		*124*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*62.3*		mg/kg	*50.0*		*125*	*49.1-148*			
LCS Dup (4112511-BSD1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	212	10.0	mg/kg	200		106	81.5-123	4.39	13	
DRO >C10-C28	213	10.0	mg/kg	200		107	77.7-122	3.05	15.6	
Total TPH C6-C28	425	10.0	mg/kg	400		106	80.9-121	3.72	18.5	
Surrogate: 1-Chlorooctane	*64.8*		mg/kg	*50.0*		*130*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*64.1*		mg/kg	*50.0*		*128*	*49.1-148*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:07

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B243508 - IC- Ion Chromatograph										
Blank (B243508-BLK1)				Prepared: 27-Nov-24 Analyzed: 02-Dec-24						
Chloride	ND	10.0	mg/kg wet							
LCS (B243508-BS1)				Prepared: 27-Nov-24 Analyzed: 02-Dec-24						
Chloride	242	10.0	mg/kg wet	250		96.8	85-115			
LCS Dup (B243508-BSD1)				Prepared: 27-Nov-24 Analyzed: 02-Dec-24						
Chloride	250	10.0	mg/kg wet	250		99.8	85-115	3.13	20	
Batch B243509 - IC- Ion Chromatograph										
Blank (B243509-BLK1)				Prepared: 27-Nov-24 Analyzed: 09-Dec-24						
Chloride	ND	10.0	mg/kg wet							
LCS (B243509-BS1)				Prepared: 27-Nov-24 Analyzed: 09-Dec-24						
Chloride	256	10.0	mg/kg wet	250		102	85-115			
LCS Dup (B243509-BSD1)				Prepared: 27-Nov-24 Analyzed: 09-Dec-24						
Chloride	245	10.0	mg/kg wet	250		98.1	85-115	4.14	20	

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 OF 3

Company Name: GHD		**BILL TO**	
Project Manager: Deedee Whittington		P.O. #:	
Address:		Company:	
City: MIDLAND	State: TX Zip:	Attn:	
Phone #: 972-331-5924	Fax #:	Address:	
Project #: 126499609	Project Owner: SCOUT ENERGY	City:	
Project Name: WDDU #137		State: Zip:	
Project Location: LEA CO, NM		Phone #:	
Sampler Name: J. TREVINO		Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015M	BTEX 8021B	CHLORIDES 300.0									
H247196																									
1	SB24·112224·4	G	1			✓					✓		11·22·24	08:50	X	X	X									
2	SB24·112224·10	G	1			✓					✓		11·22·24	09:15	X	X	X									
3	SB24·112224·15	G	1			✓					✓		11·22·24	09:18	X	X	X									
4	SB24·112224·20	G	1			✓					✓		11·22·24	09:20	X	X	X									
5	SB24·112224·25	G	1			✓					✓		11·22·24	09:25	X	X	X									
6	SB25·112224·2	G	1			✓					✓		11·22·24	10:16	X	X	X									
7	SB25·112224·4	G	1			✓					✓		11·22·24	10:18	X	X	X									
8	SB26·112224·2	G	1			✓					✓		11·22·24	10:30	X	X	X									
9	SB26·112224·4	G	1			✓					✓		11·22·24	10:32	X	X	X									
10	SB27·112224·2	G	1			✓					✓		11·22·24	10:46	X	X	X									

Hold
Hold
Hold

Relinquished By: Jeanne Frey	Date: 11.22.24	Received By: S Rodriguez	Verbal Result: ☐ Yes ☐ No	Add'l Phone #:	
	Time: 1549		All Results are emailed. Please provide Email address:		
Relinquished By:	Date:	Received By:	REMARKS:		
	Time:				
Delivered By: (Circle One)	Observed Temp. °C 4.3	Sample Condition	CHECKED BY:	Turnaround Time:	Standard ☑	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.7	Cool Intact ☑ Yes ☑ Yes ☐ No ☐ No	(Initials) SR		Rush ☐	Cool Intact Observed Temp. °C ☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C
				Thermometer ID #140 Correction Factor -0.6°C		

FORM-006 R 3.5 08/05/24

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: GHD	**BILL TO**
Project Manager: Deedee Whittington	P.O. #:
Address:	Company:
City: State: Zip:	Attn:
Phone #: 972.331.5924 Fax #:	Address:
Project #: 12649609 Project Owner: SCOUT ENERGY	City:
Project Name: WDDU #137	State: Zip:
Project Location: LEA CO NM	Phone #:
Sampler Name: JTREVINO	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	SAMPLING TIME	TPH 8015M	BTEX 8021B	CHLORIDES 300.0									
H247196																										
11	SB27·112224·4	G	1			✓					✓		11·22·24	10:48	X	X	X									
12	SB28·112224·4	G	1			✓					✓		11·22·24	11:00	X	X	X									
13	SB28·112224·10	G	1			✓					✓		11·22·24	11:08	X	X	X									
14	SB28·112224·15	G	1			✓					✓		11·22·24	11:12	X	X	X									
15	SB28·112224·20'	G	1			✓					✓		11·22·24	11:15	X	X	X									
16	SB28·112224·29	G	1			✓					✓		11·22·24	11:20	X	X	X									
17	SB30·112224·2	G	1			✓					✓		11·22·24	13:02	X	X	X									
18	SB30·112224·4	G	1			✓					✓		11·22·24	13:04	X	X	X									
19	SB31·112224·2	G	1			✓					✓		11·22·24	13:16	X	X	X									
20	SB31·112224·4	G	1			✓					✓		11·22·24	13:18	X	X	X									

Hold
Hold
Hold

Relinquished By: Jeanne Trevino	Date: 11·22·24 Time: 1549	Received By: S Rodriguez	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address:
			REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.3 Corrected Temp. °C 3.7	Sample Condition Cool Yes No Intact Yes No	CHECKED BY: (Initials) SR	Turnaround Time: Standard ☒ Rush ☐ Thermometer ID #140 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 08/05/24

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 OF 3

Company Name:	GHD
Project Manager:	Deedee Whittington
Address:	
City:	Midland State: TX Zip:
Phone #:	972-331-5924 Fax #:
Project #:	12649609 Project Owner: SCOUTENERGY
Project Name:	WDDU #137
Project Location:	LEA CO NM
Sampler Name:	J TREVINO

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	SAMPLING TIME	TPH 8015M	BTEX 8021B	CHLORIDES 300.0
H247196-21	SB32·112224·2	G	1			✓					✓		11·22·24	13:42	X	X	X
22	SB32·112224.4	G	1			✓					✓		11·22·24	13:44	X	X	X
23	DUP03·112224	G	1			✓					✓		11·22·24	—	X	X	X
24	DUP04·112224	G	1			✓					✓		11·22·24	—	X	X	X

Relinquished By: Jeanne Trev	Date: 11·22·24 Time: 1549	Received By: SRodriguez	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.3 Corrected Temp. °C 3.7	Sample Condition Cool Yes No Intact Yes No	CHECKED BY: (Initials) SR

REMARKS:

Turnaround Time: Standard ☒ Rush ☐

Thermometer ID #140
Correction Factor -0.6°C

Bacteria (only) Sample Condition
Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.3 08/05/24

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December 12, 2024

DEEDEE WHITTINGTON

GHD

11451 KATY FWY #400

HOUSTON, TX 77079

RE: WDDU #137

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 15:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:25

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB 40 - 112224 - 4	H247197-01	Soil	22-Nov-24 11:25	22-Nov-24 15:49
SB 40 - 112224 - 10	H247197-02	Soil	22-Nov-24 11:30	22-Nov-24 15:49
SB 40 - 112224 - 20	H247197-03	Soil	22-Nov-24 11:35	22-Nov-24 15:49
SB 40 - 112224 - 30	H247197-04	Soil	22-Nov-24 12:00	22-Nov-24 15:49

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:25

SB 40 - 112224 - 4

H247197-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*98.2 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*122 %*	*48.2-134*		*4112511*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*124 %*	*49.1-148*		*4112511*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**2670**		20.0	mg/kg wet	20	B243509	AWG	10-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:25

SB 40 - 112224 - 10

H247197-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*117 %*	*48.2-134*		*4112511*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*119 %*	*49.1-148*		*4112511*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**3200**		50.0	mg/kg wet	50	B243509	AWG	10-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:25

SB 40 - 112224 - 20

H247197-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*111 %*	*48.2-134*		*4112511*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*113 %*	*49.1-148*		*4112511*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**3360**		50.0	mg/kg wet	50	B243509	AWG	10-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:25

SB 40 - 112224 - 30

H247197-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112541	JH	26-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*98.4 %*	*71.5-134*		*4112541*	JH	*26-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112511	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*118 %*	*48.2-134*		*4112511*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*121 %*	*49.1-148*		*4112511*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**2140**		20.0	mg/kg wet	20	B243509	AWG	10-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:25

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112541 - Volatiles										
Blank (4112541-BLK1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0543*		mg/kg	*0.0500*		*109*	*71.5-134*			
LCS (4112541-BS1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
Benzene	1.71	0.050	mg/kg	2.00		85.6	82.8-130			
Toluene	1.64	0.050	mg/kg	2.00		81.8	86-128			BS-3
Ethylbenzene	1.70	0.050	mg/kg	2.00		85.2	85.9-128			BS-3
m,p-Xylene	3.43	0.100	mg/kg	4.00		85.8	89-129			BS-3
o-Xylene	1.72	0.050	mg/kg	2.00		86.1	86.1-125			
Total Xylenes	5.15	0.150	mg/kg	6.00		85.9	88.2-128			BS-3
Surrogate: 4-Bromofluorobenzene (PID)	*0.0499*		mg/kg	*0.0500*		*99.9*	*71.5-134*			
LCS Dup (4112541-BSD1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
Benzene	2.05	0.050	mg/kg	2.00		102	82.8-130	17.9	15.8	QR-04
Toluene	2.02	0.050	mg/kg	2.00		101	86-128	21.2	15.9	QR-04
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128	21.8	16	QR-04
m,p-Xylene	4.30	0.100	mg/kg	4.00		108	89-129	22.5	16.2	QR-04
o-Xylene	2.16	0.050	mg/kg	2.00		108	86.1-125	22.3	16.7	QR-04
Total Xylenes	6.46	0.150	mg/kg	6.00		108	88.2-128	22.5	16.3	QR-04
Surrogate: 4-Bromofluorobenzene (PID)	*0.0534*		mg/kg	*0.0500*		*107*	*71.5-134*			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:25

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112511 - General Prep - Organics										
Blank (4112511-BLK1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*62.3*		mg/kg	*50.0*		*125*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*63.4*		mg/kg	*50.0*		*127*	*49.1-148*			
LCS (4112511-BS1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	203	10.0	mg/kg	200		101	81.5-123			
DRO >C10-C28	207	10.0	mg/kg	200		103	77.7-122			
Total TPH C6-C28	410	10.0	mg/kg	400		102	80.9-121			
Surrogate: 1-Chlorooctane	*61.8*		mg/kg	*50.0*		*124*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*62.3*		mg/kg	*50.0*		*125*	*49.1-148*			
LCS Dup (4112511-BSD1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	212	10.0	mg/kg	200		106	81.5-123	4.39	13	
DRO >C10-C28	213	10.0	mg/kg	200		107	77.7-122	3.05	15.6	
Total TPH C6-C28	425	10.0	mg/kg	400		106	80.9-121	3.72	18.5	
Surrogate: 1-Chlorooctane	*64.8*		mg/kg	*50.0*		*130*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*64.1*		mg/kg	*50.0*		*128*	*49.1-148*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:25

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B243509 - IC- Ion Chromatograph										
Blank (B243509-BLK1)				Prepared: 27-Nov-24 Analyzed: 09-Dec-24						
Chloride	ND	10.0	mg/kg wet							
LCS (B243509-BS1)				Prepared: 27-Nov-24 Analyzed: 09-Dec-24						
Chloride	256	10.0	mg/kg wet	250		102	85-115			
LCS Dup (B243509-BSD1)				Prepared: 27-Nov-24 Analyzed: 09-Dec-24						
Chloride	245	10.0	mg/kg wet	250		98.1	85-115	4.14	20	

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PG 1 OF 1

Company Name: GHD	**BILL TO**
Project Manager: Deedee Whittington	P.O. #:
Address:	Company:
City: MIDLAND State: TX Zip:	Attn:
Phone #: 972-331-5924 Fax #:	Address:
Project #: 126496O9 Project Owner:	City:
Project Name: WDDU #137	State: Zip:
Project Location: Lea Co NM	Phone #:
Sampler Name: JT	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH 8015M	BTEX 8021B	CHLORIDES 300.0
H24797																	
1	SB40·112224·4	G	1			✓					✓		11·22·24	11:25	X	X	X
2	SB40·112224·10	G	1			✓					✓		11·22·24	11:30	X	X	X
3	SB40·112224·20	G	1			✓					✓		112224	11:35	X	X	X
4	SB40·112224 30	G	1			✓					✓		11·22·24	12:00	X	X	X

Relinquished By: Jeanne Frey	Date: 11-22-24 Time: 1549	Received By: S Rodriguez	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.3 Corrected Temp. °C 3.7	Sample Condition Cool Intact ☐ Yes ☒ Yes ☐ No ☐ No	CHECKED BY: (Initials) SR

REMARKS:

Turnaround Time: Standard ☒ Rush ☐

Thermometer ID #140
Correction Factor -0.6°C

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C
☐ Yes ☐ Yes
☐ No ☐ No Corrected Temp. °C

FORM-006 R 3.3 08/05/24

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 12, 2024

DEEDEE WHITTINGTON

GHD

11451 KATY FWY #400

HOUSTON, TX 77079

RE: WDDU #137

Enclosed are the results of analyses for samples received by the laboratory on 11/25/24 8:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:31

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB 23 - 112324 - 2	H247204-01	Soil	23-Nov-24 08:30	25-Nov-24 08:36
SB 23 - 112324 - 4	H247204-02	Soil	23-Nov-24 08:32	25-Nov-24 08:36
SB 29 - 112324 - 2	H247204-03	Soil	23-Nov-24 08:46	25-Nov-24 08:36
SB 29 - 112324 - 4	H247204-04	Soil	23-Nov-24 08:48	25-Nov-24 08:36
BB 33 - 112324 - 2	H247204-05	Soil	23-Nov-24 07:48	25-Nov-24 08:36
SB 33 - 112324 - 4	H247204-06	Soil	23-Nov-24 07:50	25-Nov-24 08:36

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:31

SB 23 - 112324 - 2

H247204-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112545*	JH	*27-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112514	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112514	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112514	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*98.4 %*	*48.2-134*		*4112514*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*105 %*	*49.1-148*		*4112514*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**510**		10.0	mg/kg wet	10	B243509	AWG	10-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:31

SB 23 - 112324 - 4

H247204-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*4112545*	JH	*27-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112514	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112514	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112514	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*106 %*	*48.2-134*		*4112514*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*114 %*	*49.1-148*		*4112514*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**542**		10.0	mg/kg wet	10	B243510	AWG	10-Dec-24	EPA 300.0	M5

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:31

SB 29 - 112324 - 2

H247204-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*4112545*	JH	*27-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112533	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112533	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112533	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*115 %*	*48.2-134*		*4112533*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*104 %*	*49.1-148*		*4112533*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**714**		10.0	mg/kg wet	10	B243510	AWG	10-Dec-24	EPA 300.0	M5

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:31

SB 29 - 112324 - 4

H247204-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*4112545*	JH	*27-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112533	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112533	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112533	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*123 %*	*48.2-134*		*4112533*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*113 %*	*49.1-148*		*4112533*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1460**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:31

BB 33 - 112324 - 2

H247204-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112545*	JH	*27-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112533	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112533	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112533	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*119 %*	*48.2-134*		*4112533*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*107 %*	*49.1-148*		*4112533*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**846**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:31

SB 33 - 112324 - 4

H247204-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112545	JH	27-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*4112545*	JH	*27-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112533	MS	26-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112533	MS	26-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112533	MS	26-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*116 %*	*48.2-134*		*4112533*	MS	*26-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*105 %*	*49.1-148*		*4112533*	MS	*26-Nov-24*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1070**		10.0	mg/kg wet	10	B243510	AWG	11-Dec-24	EPA 300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:31

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112545 - Volatiles										
Blank (4112545-BLK1)				Prepared: 25-Nov-24 Analyzed: 27-Nov-24						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0516*		mg/kg	*0.0500*		*103*	*71.5-134*			
LCS (4112545-BS1)				Prepared: 25-Nov-24 Analyzed: 27-Nov-24						
Benzene	2.09	0.050	mg/kg	2.00		104	82.8-130			
Toluene	2.13	0.050	mg/kg	2.00		107	86-128			
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	85.9-128			
m,p-Xylene	4.24	0.100	mg/kg	4.00		106	89-129			
o-Xylene	2.04	0.050	mg/kg	2.00		102	86.1-125			
Total Xylenes	6.27	0.150	mg/kg	6.00		105	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0501*		mg/kg	*0.0500*		*100*	*71.5-134*			
LCS Dup (4112545-BSD1)				Prepared: 25-Nov-24 Analyzed: 27-Nov-24						
Benzene	2.16	0.050	mg/kg	2.00		108	82.8-130	3.65	15.8	
Toluene	2.18	0.050	mg/kg	2.00		109	86-128	2.30	15.9	
Ethylbenzene	2.15	0.050	mg/kg	2.00		107	85.9-128	1.90	16	
m,p-Xylene	4.30	0.100	mg/kg	4.00		108	89-129	1.55	16.2	
o-Xylene	2.06	0.050	mg/kg	2.00		103	86.1-125	1.32	16.7	
Total Xylenes	6.36	0.150	mg/kg	6.00		106	88.2-128	1.47	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0505*		mg/kg	*0.0500*		*101*	*71.5-134*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:31

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112514 - General Prep - Organics										
Blank (4112514-BLK1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*58.6*		mg/kg	*50.0*		*117*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*62.9*		mg/kg	*50.0*		*126*	*49.1-148*			
LCS (4112514-BS1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	189	10.0	mg/kg	200		94.5	81.5-123			
DRO >C10-C28	194	10.0	mg/kg	200		97.2	77.7-122			
Total TPH C6-C28	383	10.0	mg/kg	400		95.8	80.9-121			
Surrogate: 1-Chlorooctane	*56.8*		mg/kg	*50.0*		*114*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*59.5*		mg/kg	*50.0*		*119*	*49.1-148*			
LCS Dup (4112514-BSD1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	198	10.0	mg/kg	200		99.0	81.5-123	4.68	13	
DRO >C10-C28	203	10.0	mg/kg	200		102	77.7-122	4.51	15.6	
Total TPH C6-C28	401	10.0	mg/kg	400		100	80.9-121	4.59	18.5	
Surrogate: 1-Chlorooctane	*60.1*		mg/kg	*50.0*		*120*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*61.6*		mg/kg	*50.0*		*123*	*49.1-148*			
Batch 4112533 - General Prep - Organics										
Blank (4112533-BLK1)				Prepared: 25-Nov-24 Analyzed: 27-Nov-24						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*65.8*		mg/kg	*50.0*		*132*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*58.3*		mg/kg	*50.0*		*117*	*49.1-148*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:31

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112533 - General Prep - Organics										
LCS (4112533-BS1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	183	10.0	mg/kg	200		91.3	81.5-123			
DRO >C10-C28	178	10.0	mg/kg	200		89.0	77.7-122			
Total TPH C6-C28	360	10.0	mg/kg	400		90.1	80.9-121			
Surrogate: 1-Chlorooctane	*63.8*		mg/kg	*50.0*		*128*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*59.5*		mg/kg	*50.0*		*119*	*49.1-148*			
LCS Dup (4112533-BSD1)				Prepared: 25-Nov-24 Analyzed: 26-Nov-24						
GRO C6-C10	193	10.0	mg/kg	200		96.4	81.5-123	5.46	13	
DRO >C10-C28	186	10.0	mg/kg	200		93.0	77.7-122	4.42	15.6	
Total TPH C6-C28	379	10.0	mg/kg	400		94.7	80.9-121	4.95	18.5	
Surrogate: 1-Chlorooctane	*68.1*		mg/kg	*50.0*		*136*	*48.2-134*			*S-05*
Surrogate: 1-Chlorooctadecane	*62.5*		mg/kg	*50.0*		*125*	*49.1-148*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD 11451 KATY FWY #400 HOUSTON TX, 77079	Project: WDDU #137 Project Number: 12649609 Project Manager: DEEDEE WHITTINGTON Fax To:	Reported: 12-Dec-24 10:31

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B243509 - IC- Ion Chromatograph										
Blank (B243509-BLK1)				Prepared: 27-Nov-24 Analyzed: 09-Dec-24						
Chloride	ND	10.0	mg/kg wet							
LCS (B243509-BS1)				Prepared: 27-Nov-24 Analyzed: 09-Dec-24						
Chloride	256	10.0	mg/kg wet	250		102	85-115			
LCS Dup (B243509-BSD1)				Prepared: 27-Nov-24 Analyzed: 09-Dec-24						
Chloride	245	10.0	mg/kg wet	250		98.1	85-115	4.14	20	
Batch B243510 - IC- Ion Chromatograph										
Blank (B243510-BLK1)				Prepared: 27-Nov-24 Analyzed: 10-Dec-24						
Chloride	ND	10.0	mg/kg wet							
LCS (B243510-BS1)				Prepared: 27-Nov-24 Analyzed: 10-Dec-24						
Chloride	238	10.0	mg/kg wet	250		95.1	85-115			
LCS Dup (B243510-BSD1)				Prepared: 27-Nov-24 Analyzed: 10-Dec-24						
Chloride	238	10.0	mg/kg wet	250		95.1	85-115	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 OF 1

Company Name:	GHD
Project Manager:	Deedee Whittington
Address:	
City:	MIDLAND State: TX Zip:
Phone #:	972-331-5924 Fax #:
Project #:	126496609 Project Owner: Scout Energy
Project Name:	WDDU #137
Project Location:	LEA Co. NM
Sampler Name:	J. TREVINO

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	SAMPLING TIME	TPH 8015M	BTEX 8021B	CHLORIDES 300.0
H247204													11.25.24 *SR				
1	SB23-112324-2	G	1			✓							11.23.24	08:30	X	X	X
2	SB23-112324-4	G	1			✓								08:32	X	X	X
3	SB29-112324-2	G	1			✓								08:46	X	X	X
4	SB29-112324-4	G	1			✓								08:48	X	X	X
5	BB33-112324-2	G	1			✓								07:43	X	X	X
6	SB33-112324-4	G	1			✓								07:50	X	X	X

Relinquished By: Jeanne Trev	Date: 11.25.24 Time: 0836	Received By: SRodriguez	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address:
			REMARKS: * sample date added taked from labels on jars. SRodriguez 11.25.24

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.0 Corrected Temp. °C 2.4	Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) SR	Turnaround Time: Standard ☑ Rush ☐ Thermometer ID #140 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.5 08/05/24

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Attachment C

Soil Boring Logs

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 01

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling

Northing: 437439 ft
Easting: 924364 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	88	SB 01 - 112024 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 01 - 112024 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 02

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437371 ft
Easting: 924416 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	75	SB 02 -112024 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 02 -112024 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 03

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437303 ft
Easting: 924385 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	75	SB 03 - 112024 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 03 - 112024 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 04

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437399 ft
Easting: 924325 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1									1
2			- white at 2.00ft BGS	1DTS	75	SB 04 - 112024 - 2	☒		2
3									3
4	4.00		End of Hole at 4.00 ft.			SB 04 - 112024 - 4	☒		4

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 05

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437368 ft
Easting: 924276 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1									1
2			- white at 2.00ft BGS	1DTS	81	SB 05 - 112024 - 2	☒		2
3									3
4	4.00		End of Hole at 4.00 ft.			SB 05 - 112024 - 4	☒		4

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 06

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437360 ft
Easting: 924195 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1									1
2			- white at 2.00ft BGS	1DTS	75	SB 06 - 112024 - 2	☒		2
3									3
4	4.00		End of Hole at 4.00 ft.			SB 06 - 112024 - 4	☒		4

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 07

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437348 ft
Easting: 924078 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1									1
2			- white at 2.00ft BGS	1DTS	81	SB 07 - 112024 - 2	☒		2
3									3
4	4.00		End of Hole at 4.00 ft.			SB 07 - 112024 - 4	☒		4

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 08

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437261 ft
Easting: 924090 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1									1
2			- white at 2.00ft BGS	1DTS	81	SB 08 - 112024 - 2	☒		2
3									3
4	4.00		End of Hole at 4.00 ft.			SB 08 - 112024 - 4	☒		4

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 09

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437335 ft
Easting: 924211 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1									1
2			- white at 2.00ft BGS	1DTS	81	SB 09 - 112024 - 2	☒		2
3									3
4	4.00		End of Hole at 4.00 ft.			SB 09 - 112024 - 4	☒		4

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 10

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437315 ft
Easting: 924316 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1									
2			- white at 2.00ft BGS	1DTS	81	SB 10 - 112024 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 10 - 112024 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 11

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437256 ft
Easting: 924330 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1									1
2				1DTS	88	SB 11 - 112024 - 2	☒		2
3			- white at 3.00ft BGS						3
4	4.00		End of Hole at 4.00 ft.			SB 11 - 112024 - 4	☒		4

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 12

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling
Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437358 ft
Easting: 924338 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 6.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		Removed during excavation						
1									
2	2.00		SM-SILTY SAND, white, no odor, dry						
3									
4				1DTS	75	SB 12 - 112024 - 4	☒		
5									
6	6.00		End of Hole at 6.00 ft.						

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 13

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling
Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437308 ft
Easting: 924324 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 5.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		Removed during excavation						
1	1.00		SM-SILTY SAND, white, no odor, dry						
2									
3				1DTS	81				
4						SB 13 - 112024 - 4	☒		
5	5.00		End of Hole at 5.00 ft.						

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 14

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling
Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437345 ft
Easting: 924214 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 5.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		Removed during excavation						
1	1.00		SM-SILTY SAND, tan, no odor, dry						
2									
3				1DTS	81				
4						SB 14 - 112024 - 4	☒		
5	5.00		End of Hole at 5.00 ft.						

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 15

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 20/11/2024
Drilling Company: Savage Drilling
Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437323 ft
Easting: 924073 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 5.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		Removed during excavation						
1	1.00		SM-SILTY SAND, tan, no odor, dry						
2									
3				1DTS	81				
4						SB 15 - 112024 - 4	☒		
5	5.00		End of Hole at 5.00 ft.						

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 16

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 21/11/2024
Drilling Company: Savage Drilling

Northing: 437305 ft
Easting: 924047 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	88	SB 16 - 112124 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 16 - 112124 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 17

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 21/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 924045 ft
Easting: 437208 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	81	SB 17 - 112124 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 17 - 112124 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD
(Overburden)

SB 18

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 21/11/2024
Drilling Company: Savage Drilling
Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437219 ft
Easting: 924066 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 5.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		Removed during excavation						
1	1.00		SM-SILTY SAND, white, no odor, dry						
2									
3				1DTS	81				
4						SB 18 - 112124 - 4	☒		
5	5.00		End of Hole at 5.00 ft.						

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
At Time of Drilling:
Upon Completion of Drilling:

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD
(Overburden)

SB 19

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 21/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437207 ft
Easting: 924086 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	81	SB 19 - 112124 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 19 - 112124 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 20

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 21/11/2024
Drilling Company: Savage Drilling
Drilling Method(s): Geoprobe/Rotary-Air
Hole Diameter(s): 2.5 inch

Northing: 437098 ft
Easting: 924064 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 30.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00								
1	1.00		Removed during excavation						
1			SM-SILTY SAND, white, no odor, dry						
2									
3				1DTS	81				
4						SB 20 - 112124 - 4	☒		
5			- pink at 5.00ft BGS						
6									
7									
8									
9									
10						SB 20 - 112124 - 10	☒		
11									
12									
13									
14									
15									
16									
17									
18				2AU					
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30	30.00		End of Hole at 30.00 ft.						

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 21

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 21/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437061 ft
Easting: 924043 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	81	SB 21 - 112124 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 21 - 112124 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 22

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 21/11/2024
Drilling Company: Savage Drilling
Drilling Method(s): Geoprobe/Rotary-Air
Hole Diameter(s): 2.5 inch

Northing: 436987 ft
Easting: 924042 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 30.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		Removed during excavation						
	2.00		SM-SILTY SAND, white, no odor, dry						
				1DTS	70	SB 22 - 112124 - 4	☒		
			- tan at 7.00ft BGS						
						SB 22 - 112124 - 10	☒		
				2AU					
	30.00		End of Hole at 30.00 ft.						

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
At Time of Drilling:
Upon Completion of Drilling:

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 23

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 23/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 436951 ft
Easting: 924000 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	81	SB 23 - 112324 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 23 - 112324 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 24

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 22/11/2024
Drilling Company: Savage Drilling
Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 436895 ft
Easting: 924026 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 25.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		Removed during excavation						
	2.00		SM-SILTY SAND, white, no odor, dry	1DTS	88	SB 24 - 112224 - 4	☒		
	6.00		SW-SAND with silt, light green, no odor, dry						
	7.00		SM-SILTY SAND, white, no odor, dry	2DTS	65	SB 24 - 112224 - 10	☒		
				3DTS	80				
				4DTS	80				
				5DTS	100				
	25.00		End of Hole at 25.00 ft.						

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 25

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 22/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 436887 ft
Easting: 923968 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	81	SB 25 - 112224 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 25 - 112224 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 26

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 22/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 436870 ft
Easting: 923908 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	88	SB 26 - 112224 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 26 - 112224 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 27

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 22/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 436868 ft
Easting: 923894 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	81	SB 27 - 112224 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 27 - 112224 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 28

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 22/11/2024
Drilling Company: Savage Drilling
Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 436842 ft
Easting: 923946 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 29.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		Removed during excavation						
	3.00		SM-SILTY SAND, white, no odor, dry	1DTS	88	SB 28 - 112224 - 4	☒		
				2DTS	85	SB 28 - 112224 - 10	☒		
				3DTS	80				
				4DTS	85				
				5DTS	100				
				6DTS	75				
	29.00		End of Hole at 29.00 ft.						

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
At Time of Drilling:
Upon Completion of Drilling:

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 29

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 23/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 436830 ft
Easting: 923930 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1									1
2			- white at 2.00ft BGS	1DTS	81	SB 29 - 112324 - 2	☒		2
3									3
4	4.00		End of Hole at 4.00 ft.			SB 29 - 112324 - 4	☒		4

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 30

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 22/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 436879 ft
Easting: 924038 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	88	SB 30 - 112224 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 30 - 112224 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 31

Project Number: 12649609

Page 1 of 1

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 22/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 436958 ft
Easting: 924053 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	88	SB 31 - 112224 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 31 - 112224 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 32

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 22/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437081 ft
Easting: 924082 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	81	SB 32 - 112224 - 2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 32 - 112224 - 4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 33

Project Number: 12649609

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 23/11/2024
Drilling Company: Savage Drilling

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Northing: 437128 ft
Easting: 924095 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Elevation:
Elevation Datum:

Logged By: K. Taylor
Approved By: D. Whittington
Final Depth: 4.00 ft

Coordinates and Elevation Values are Approximate

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, medium brown, no odor, dry						
1			- white at 1.00ft BGS						
2				1DTS	88	SB 33 - 112324 -2	☒		
3									
4	4.00		End of Hole at 4.00 ft.			SB 33 - 112324 -4	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Drilling:**
▼ **Upon Completion of Drilling:**

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

SB 40

Project Number: 12649609

Page 1 of 1

Client: Scout Energy
Project: West Dollarhide Drinkard Unit #137
Location: 7.5 miles northeast of Jal, New Mexico
Date Range (dd/mm/yyyy): 22/11/2024
Drilling Company: Savage Drilling

Northing: 436806 ft
Easting: 923985 ft
Horizontal Datum: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Logged By: K. Taylor
Approved By: D. Whittington

Drilling Method(s): Geoprobe
Hole Diameter(s): 2.5 inch

Elevation:
Elevation Datum:
Coordinates and Elevation Values are Approximate

Final Depth: 30.00 ft

Depth Scale (m)	Depth (ft) / Elev. (ft)	Strata	Description	Run Number	Recovery %	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00		SM-SILTY SAND, white, no odor, dry						
1–3				1DTS	88				
4						SB 40 - 112224 - 4	☒		
5–8				2DTS	85				
9–10						SB 40 - 112224 - 10	☒		
11–14				3DTS	85				
15–18				4DTS	90				
19–20						SB 40 - 112224 - 20	☒		
21–24				5DTS	85				
25–28				6DTS	90				
29				7DTS	100				
30	30.00		End of Hole at 30.00 ft.			SB 40 - 112224 - 30	☒		

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
At Time of Drilling:
Upon Completion of Drilling:

Well - Reference Elevation(s)	
Location	Elevation (ft)

Created with OpenGround Template: GHD-US-GEN-ENV-Overburden-Rev02 / Strip Set: GHD-US-ENV-Overburden Log-V5 25/2/25

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

QUESTIONS

Action 436495

QUESTIONS

Operator: SCOUT ENERGY MANAGEMENT LLC 13800 Montfort Road Dallas, TX 75240	OGRID: 330949
	Action Number: 436495
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2408038089**
Incident Name	**NAPP2408038089 WDDU #137 FLOWLINE @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	WDDU #137 Flowline
Date Release Discovered	03/19/2024
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Crude Oil | Released: 26 BBL | Recovered: 5 BBL | Lost: 21 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Produced Water | Released: 495 BBL | Recovered: 20 BBL | Lost: 475 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: SCOUT ENERGY MANAGEMENT LLC 13800 Montfort Road Dallas, TX 75240	OGRID: 330949
	Action Number: 436495
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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: Spencer Jackson Title: Senior Remediation Specialist Email: spencer.jackson@scoutep.com Date: 02/27/2025

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QUESTIONS (continued)

Operator: SCOUT ENERGY MANAGEMENT LLC 13800 Montfort Road Dallas, TX 75240	OGRID: 330949
	Action Number: 436495
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
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.	
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	Direct Measurement
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	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
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.	
Requesting a remediation plan approval with this submission	Yes
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.	
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)	17800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2630
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
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.	
On what estimated date will the remediation commence	04/01/2025
On what date will (or did) the final sampling or liner inspection occur	05/01/2025
On what date will (or was) the remediation complete(d)	05/01/2025
What is the estimated surface area (in square feet) that will be reclaimed	8604
What is the estimated volume (in cubic yards) that will be reclaimed	956
What is the estimated surface area (in square feet) that will be remediated	2000
What is the estimated volume (in cubic yards) that will be remediated	956
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.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: SCOUT ENERGY MANAGEMENT LLC 13800 Montfort Road Dallas, TX 75240	OGRID: 330949
	Action Number: 436495
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	SUNDANCE SERVICES, INC [fKJ1600527371]
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
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Spencer Jackson Title: Senior Remediation Specialist Email: spencer.jackson@scoutep.com Date: 02/27/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: SCOUT ENERGY MANAGEMENT LLC 13800 Montfort Road Dallas, TX 75240	OGRID: 330949
	Action Number: 436495
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 (continued)

Operator:	OGRID:
SCOUT ENERGY MANAGEMENT LLC 13800 Montfort Road Dallas, TX 75240	330949
	Action Number: 436495
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**404710**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**11/20/2024**
What was the (estimated) number of samples that were to be gathered	**90**
What was the sampling surface area in square feet	**40700**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Operator: SCOUT ENERGY MANAGEMENT LLC 13800 Montfort Road Dallas, TX 75240	OGRID: 330949
	Action Number: 436495
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	3/13/2025
bhall	The question regarding the minimum distance from the closest lateral extent of the release and "A continuously flowing watercourse or any other significant watercourse" was answered "Greater than 5 (mi.)". A mapped significant water course is located approximately 500 feet north of the release. This answer must be updated to reflect the correct distance when the next C-141 is submitted.	3/13/2025
bhall	The question regarding the minimum distance from the closest lateral extent of the release and "Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)" was answered "Greater than 5 (mi.)". Mapped lakebeds, sinkholes, or playa lakes are located within 1/2 mile to 1 mile of the site. This answer must be updated to reflect the correct distance when the next C-141 is submitted.	3/13/2025
bhall	The question regarding the minimum distance from the closest lateral extent of the release and "A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes" was answered "Greater than 5 (mi.)". Mapped water wells indicate that there are wells located with 1 mile to 5 miles of the site. This answer must be updated to reflect the correct distance when the next C-141 is submitted.	3/13/2025
bhall	The question regarding the minimum distance from the closest lateral extent of the release and "Any other fresh water well or spring" was answered "Greater than 5 (mi.)". Mapped water wells indicate that there are wells located within 1/2 to 1 mile of the site. This answer must be updated to reflect the correct distance when the next C-141 is submitted.	3/13/2025
bhall	The question regarding the minimum distance from the closest lateral extent of the release and "A wetland" was answered "Greater than 5 (mi.)". A mapped wetland is located approximately 500 feet north of the release. This answer must be updated to reflect the correct distance when the next C-141 is submitted.	3/13/2025
bhall	The question "Did the release impact areas not on an exploration, development, production, or storage site" was answered "No". The release impacted areas not on an exploration, development, production, or storage site. This answer must be updated when the next C-141 is submitted.	3/13/2025
bhall	OCD approves the Watercourse Evaluation Report for the mapped feature that is identified as a riverine located near the terminus of the release (south of the release point).	3/13/2025
bhall	OCD approves the dig and haul of contaminated soils. All soils from ground surface to 4' below ground surface (bgs) must meet the reclamation standards also known as the most stringent closure standards found on Table I of 19.15.29 NMAC. Soil standards below 4 feet must be remediated to Table I Closure Criteria for the approved site-specific depth to groundwater (OCD approves the use of the remediation standard of depth to groundwater is greater than 100' for soils deeper than 4' bgs. Excavation may need to be advanced further laterally and vertically than want is proposed in the remediation plan depending on field conditions.	3/13/2025
bhall	OCD will require excavation of the lease road if confirmation samples show that impacts above the reclamation and/or closure criteria are present.	3/13/2025
bhall	5-point composite confirmation samples must be collected from the ALL of the bottom and sidewalls of the excavation including from the "previous excavation" as indicated on the attached maps. Confirmation samples must be collected from areas representing no more than two hundred (200) square feet. Discrete soil samples must be collected from the sidewalls if any staining is observed. All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW846 Method 8015B Modified, and chloride by EPA Method 300.	3/13/2025
bhall	As this release is in an area that is not reasonably needed for production and subsequent drilling activities, it must be reclaimed during remediation activities and reseeded as soon as practicable. A variance for reclamation/revegetation of the lease road may be requested in the closure report if the lease road is still in use.	3/13/2025
bhall	Submit a complete and accurate report through the OCD Permitting website by 6/13/2025.	3/13/2025