

Incident ID	nAPP2315760661
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	<u>255</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Connor Walker Title: Sr. EngineerSignature:  Date: 8/14/2023email: cwalker@mewbourne.com Telephone: (806)202-5281**OCD Only**Received by: Shelly Wells Date: 8/14/2023

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Application ID	


Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Connor Walker Title: Sr. Engineer
Signature:  Date: 8/14/2023
email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

Received by: Shelly Wells Date: 8/14/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 11/29/2023
Printed Name: Nelson Velez Title: Environmental Specialist – Adv

Operator did not meet 19.15.29.12D (1a) NMAC. Forbearance given on 10/06/2023.
Release resolved.

Remediation Summary & Soil Closure Request

Mewbourne Oil Company SLWMS Jennings NGL Tie-In

Lea County, New Mexico

Unit Letter "L", Section 3, Township 26 South, Range 32 East

Latitude 32.06878° North, Longitude 103.6701° West

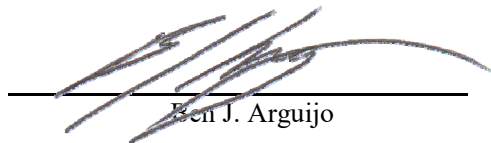
NMOCD Reference No. nAPP2315760661

Prepared By:


Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D

Lubbock, Texas 79413



Ben J. Arguijo



Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the SLWMS Jennings NGL Tie-In (henceforth, "Jennings Riser"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.06878° Longitude: -103.67010°
 Provided GPS are in WGS84 format.

Site Name:	SLWMS Jennings NGL Tie-In	Site Type:	Pipeline
Date Release Discovered:	5/26/2023	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
"L"	3	26S	32E	Lea

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

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 22	Volume Recovered (bbls) 10
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered
Cause of Release: A steel gate valve developed a hole due to corrosion.		

Initial Response

<input checked="" type="checkbox"/>	The source of the release has been stopped.
<input checked="" type="checkbox"/>	The impacted area has been secured to protect human health and the environment.
<input checked="" type="checkbox"/>	Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
<input checked="" type="checkbox"/>	All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the NMOCD Form C-141 are available in the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Jennings Riser release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	255'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish & Wildlife Services (FWS) shapefiles, topographic maps, NMOSE and USGS databases, and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Jennings Riser release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
255'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	N/A	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

4.0 REMEDIATION ACTIVITIES SUMMARY

On July 5, 2023, remediation activities commenced at the Jennings Riser release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis.

On July 5, 2023, Etech collected 10 confirmation soil samples (NW1, NW2, NW3, SW1, SW2, SW3, WW1, SP1 @ 2 1/2', SP2 @ 2', and SP3 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory method detection limit (MDL), with the exception of soil sample NW1, which exhibited a TPH concentration of 11.1 mg/kg. Chloride concentrations ranged from less than the laboratory MDL in soil samples NW2 and SW1 to 272 mg/kg in soil sample NW3.

On July 6, 2023, Etech collected five (5) confirmation soil samples (NW4, SW4, SP4 @ 5', SP5 @ 4', and SP6 @ 5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from 80.0 mg/kg in soil sample SP6 @ 5' to 480 mg/kg in soil sample NW4.

On July 10, 2023, Etech collected nine (9) confirmation soil samples (NW5, EW1, SW5, WW2, and SP7 @ 4' through SP11 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from 48.0 mg/kg in soil sample SP11 @ 4' to 576 mg/kg in soil sample SP7 @ 4'.

On July 11, 2023, Etech collected one (1) confirmation soil sample (SP12 @ 4') from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. The BTEX and TPH concentrations were also less than the applicable laboratory MDL. The chloride concentration was 576 mg/kg.

On July 12, 2023, Etech collected one (1) confirmation soil sample (SP13 @ 4') from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. The BTEX and TPH concentrations were also less than the applicable laboratory MDL. The chloride concentration was 96.0 mg/kg.

On July 13, 2023, Etech collected one (1) confirmation soil sample (SP14 @ 4') from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. The BTEX and TPH concentrations were also less than the applicable laboratory MDL. The chloride concentration was 400 mg/kg.

On July 14, 2023, Etech collected one (1) confirmation soil sample (SP15 @ 4') from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. The BTEX concentration was also less than the laboratory MDL. The TPH concentration was 25.4 mg/kg, and the chloride concentration was 384 mg/kg.

On July 15, 2023, Etech collected one (1) confirmation soil sample (EW2) from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that the BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. The BTEX and TPH concentrations were less than the applicable laboratory MDL. The chloride concentration was 752 mg/kg, which exceeded the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On July 16, 2023, Etech collected one (1) confirmation soil sample (WW3) from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. The BTEX and TPH concentrations were also less than the applicable laboratory MDL. The chloride concentration was 64.0 mg/kg.

On July 17, 2023, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample EW2. Etech collected two (2) confirmation soil samples (NW6 and EW2-2) from the sidewalls of the excavated area. Soil sample NW6 was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Soil sample EW2-2 was submitted for analysis of chloride only. Laboratory analytical results indicated that the BTEX and TPH concentrations in soil sample NW6 were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL. Chloride concentrations were below the NMOCD Closure Criterion and NMOCD Reclamation Standard in each of the submitted soil samples and ranged from 496 mg/kg in soil sample NW6 to 544 mg/kg in soil sample EW2-2.

The final dimensions of the excavated area were approximately 444 feet in length, three (3) to 48 feet in width, and two (2) to five (5) feet in depth. During the course of remediation activities, Etech transported approximately 900 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 840 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Jennings Riser release site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

8.0 DISTRIBUTION

Mewbourne Oil Company

4801 Business Park Blvd.

Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

1220 South St. Francis Drive

Santa Fe, NM 87505

United States Department of the Interior

Bureau of Land Management

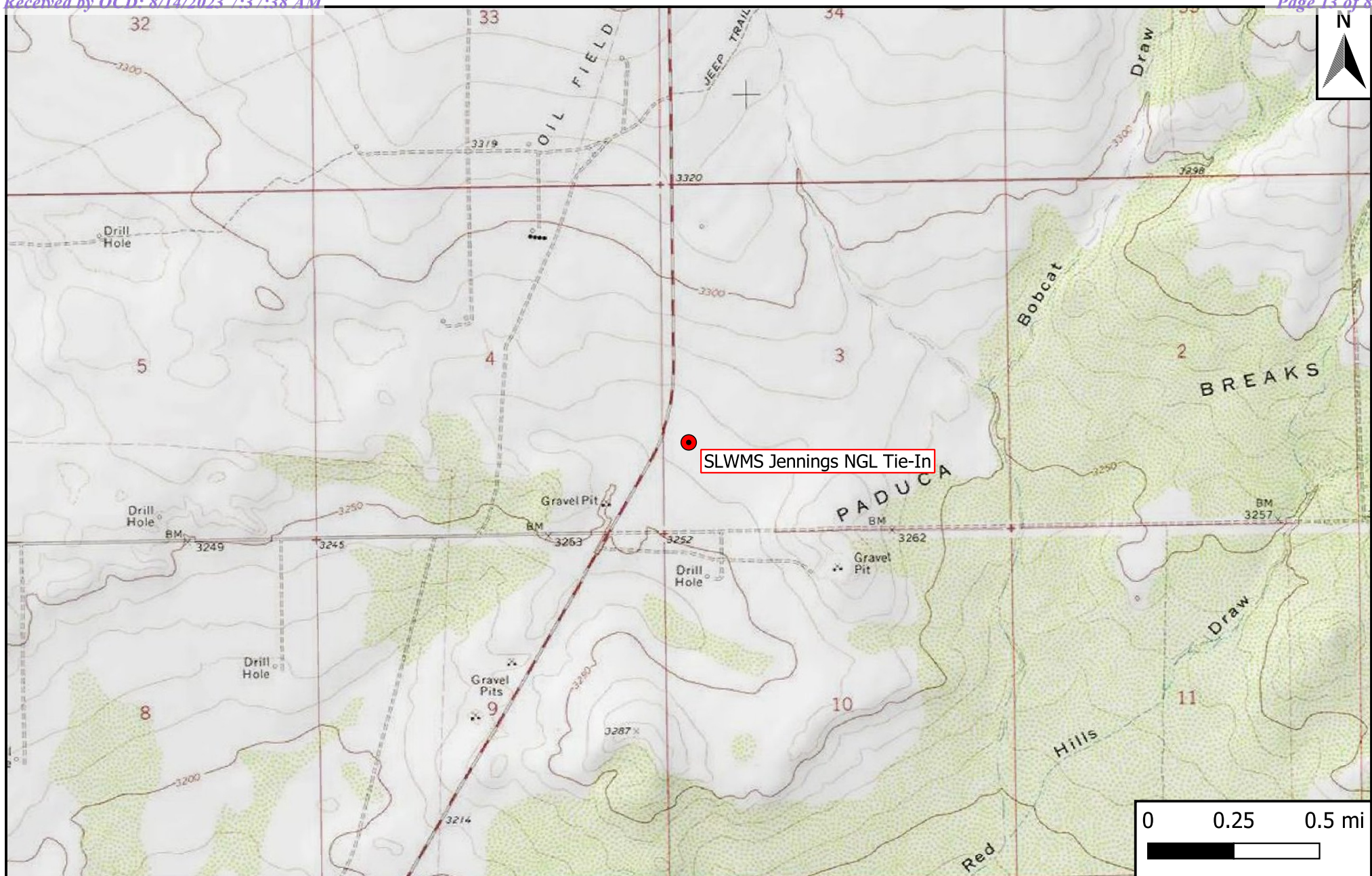
620 E. Greene Street

Carlsbad, NM 88220

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1

Topographic Map
 Mewbourne Oil Company
 SLWMS Jennings NGL Tie-In
 GPS: 32.06878, -103.67010
 Lea County, NM



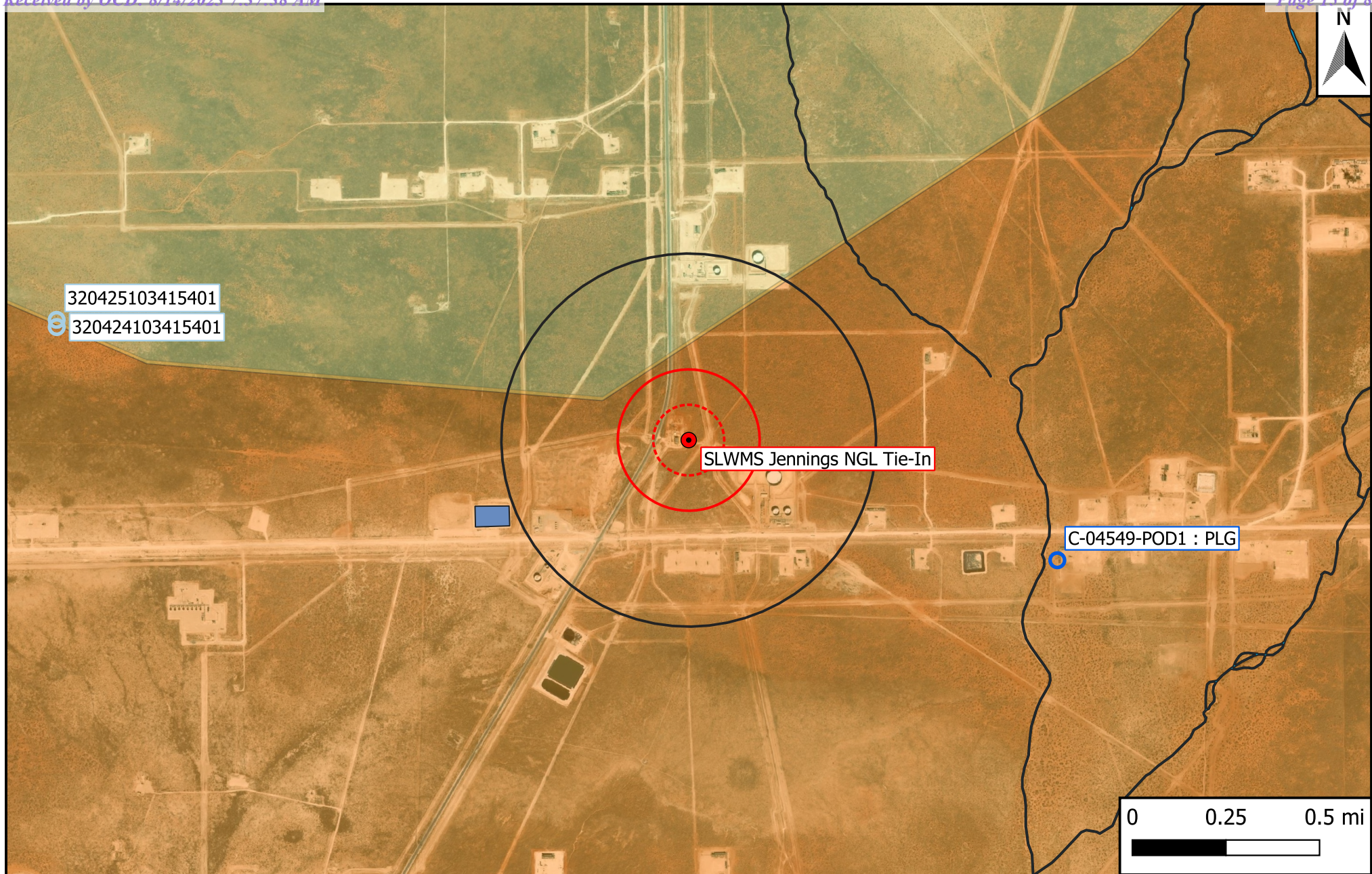
Drafted: bja

Checked: lc

Date: 6/12/23

Figure 2

Site Characterization Map



Legend

- | | | |
|------------------------------|---------------------------------|--------------------|
| ● Site Location | 1% Annual Flood Chance | 500-Ft Radius |
| ○ Well - NMOSE | Emergent/Forested Wetlands | 1,000-Ft Radius |
| ○ Well - USGS | Freshwater Pond/Lake | 0.5-Mi Radius |
| ○ Well - Exploratory/Monitor | Karst Potential (Low/Med./High) | Municipal Boundary |
| — Potash Mine Workings | Riverine | |

Figure 2

Site Characterization Map
 Mewbourne Oil Company
 SLWMS Jennings NGL Tie-In
 GPS: 32.06878, -103.67010
 Lea County, NM



Drafted: bja

Checked: lc

Date: 6/12/23

Figure 3

Site & Sample Location Map



Legend

- Excavation Extent
- Composite Floor Sample
- Composite Wall Sample

Figure 3

Site & Sample Location Map
 Mewbourne Oil Company
 SLWMS Jennings NGL Tie-In
 GPS: 32.06878, -103.67010
 Lea County, NM



Drafted: bja

Checked: jwl

Date: 8/03/23

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company SLWMS Jennings NGL Tie-In NMOCD Ref. #: nAPP2315760661											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NW1	7/5/2023	0-2.5	In-Situ	<0.050	<0.300	<10.0	11.1	11.1	<10.0	11.1	144
NW2	7/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW3	7/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
NW4	7/6/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
NW5	7/10/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
NW6	7/17/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
EW1	7/10/2023	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW2	7/15/2023	0-5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	752
EW2-2	7/17/2023	0-5	In-Situ	-	-	-	-	-	-	-	544
SW1	7/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW2	7/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW3	7/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW4	7/6/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW5	7/10/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW1	7/5/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW2	7/10/2023	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW3	7/16/2023	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SP1 @ 2 1/2'	7/5/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SP2 @ 2'	7/5/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP3 @ 4'	7/5/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SP4 @ 5'	7/6/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SP5 @ 4'	7/6/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
SP6 @ 5'	7/6/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SP7 @ 4'	7/10/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
SP8 @ 4'	7/10/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SP9 @ 4'	7/10/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SP10 @ 4'	7/10/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SP11 @ 4'	7/10/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP12 @ 4'	7/11/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
SP13 @ 4'	7/12/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SP14 @ 4'	7/13/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
SP15 @ 4'	7/14/2023	4	In-Situ	<0.050	<0.300	<10.0	25.4	25.4	<10.0	25.4	384

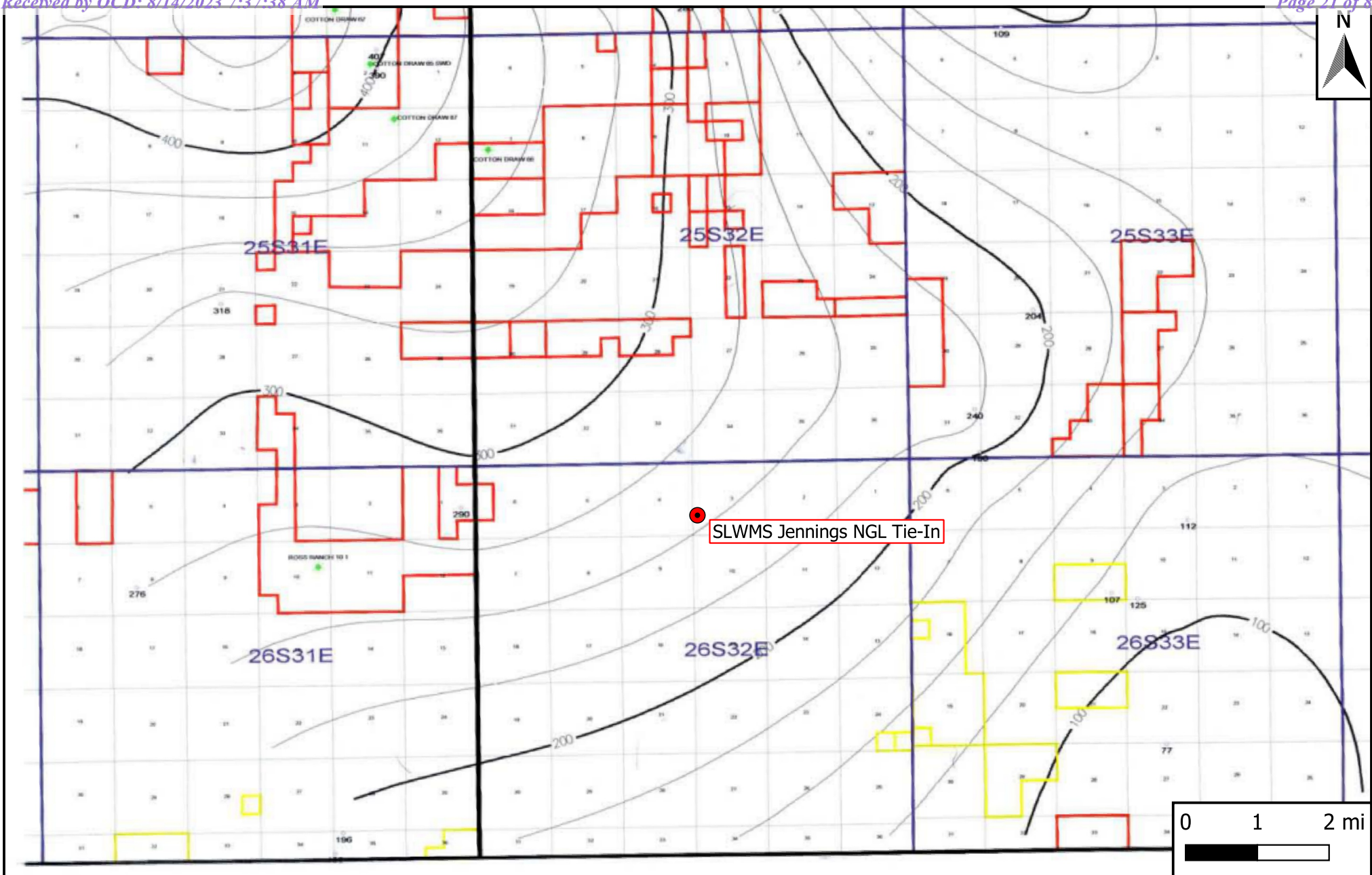
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
 Mewbourne Oil Company
 SLWMS Jennings NGL Tie-In
 GPS: 32.06878, -103.67010
 Lea County, NM



Drafted: bja

Checked: lc

Date: 6/12/23



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 1	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_04549 POD1		CUB	LE	1	1	1	11	26S	32E	627111	3548316	1666	0	0	0

Average Depth to Water: **0 feet**

Minimum Depth: **0 feet**

Maximum Depth: **0 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 625527.25

Northing (Y): 3548833

Radius: 2414

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


8/3/23 3:34 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04549 POD1	1	1	1	11	26S	32E	627111	3548316 
Driller License: 1249		Driller Company: ATKINS ENGINEERING ASSOC. INC.							
Driller Name: ATKINS, JACKIE D.UELENER									
Drill Start Date:	07/14/2021	Drill Finish Date:		07/14/2021		Plug Date:		07/19/2021	
Log File Date:	08/02/2021	PCW Rcv Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		Depth Well:		0 feet		Depth Water:		0 feet	

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

8/3/23 3:35 PM

POINT OF DIVERSION SUMMARY



320425103415401
Rustler Formation
1949/03/10: 287.7 ft

320424103415401
Santa Rosa Sandstone
1987/10/21: 289.9 ft

SLWMS Jennings NGL Tie-In

0 0.25 0.5 mi

Legend

- Site Location
- Well - USGS
- ⬢ 500-Ft Radius
- ⬢ 1,000-Ft Radius
- ⬢ 0.5-Mi Radius

Figure 5
USGS Well Proximity Map
Mewbourne Oil Company
SLWMS Jennings NGL Tie-In
GPS: 32.06878, -103.67010
Lea County, NM



Drafted: bja

Checked: lc

Date: 6/12/23



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Data Category:

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Geographic Area:

United States

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320424103415401

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320424103415401 26S.31E.01.421322

Eddy County, New Mexico

Latitude 32°04'24", Longitude 103°41'54" NAD27

Land-surface elevation 3,294 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1983-01-26		D	72019	290.12			1	Z			A
1983-02-14		D	72019	289.42			1	Z			A
1987-10-21		D	72019	289.90			1	Z			A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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0.32 0.26 nadww02



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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320425103415401

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 320425103415401 26S.31E.01.42110

Eddy County, New Mexico
Latitude 32°04'25", Longitude 103°41'54" NAD27
Land-surface elevation 3,295 feet above NAVD88
The depth of the well is 340 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1949-03-10		D	72019	287.70			1	Z			A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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0.3 0.26 nadww02

Appendix B

Field Data



Sample Log

Date: _____

Project: Jennings Riser

Project Number: _____

18266

Latitude: _____

32.068412

Longitude: _____

-103.670425

EM 7-522 Sample ID	PID/Odor	Chloride Conc.	GPS
SP1 @ 1 1/2 @ 2 1/2'	—	716.228	
NW1	—	604.260	
WW1	—	984.200	
SW1	—	200	
SP2 @ 2'	—	172	
NW2	—	172	
SW2	—	1,500.716.260	
SP3 @ 2' & 4'	—	1,604.408	
NW3	—	1,308.284	Get with Dust...
SW3	—	716.260	
SP4 @ 4' & 5'	—	1,232.220	
NW4	—	578	
SW4	—	356	
SP5 @ 4'	—	320	
SP6 @ 4' & 5'	—	796.256	
SP7 @ 3' & 4'	—	860.576	
SW5	—	1,928.192	
NW5	—	1,728.436	
SP8 @ 4'	—	252	
SP9 @ 4'	—	112	
EW1	—	192	
WW2	—	112	
SP10 @ 4'	—	220	
SP11 @ 4'	—	164	
SP12 @ 4'	—	396	
SP13 @ 4'	—	112	
SP14 @ 4'	—	356	
SP15 @ 4'	—	576	
EW2	—	356	
WW3	—	164	
NW6	—	252	
EW2-2	—	480	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples = SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Not too far along... would just start how you can measure jobs. I did the old way
50 walls etc.

Appendix C

Photographic Log

Photographic Log


Photo Number: 1	
Photo Direction: Southwest	
Photo Description: View of the affected area.	

Photo Number: 2	
Photo Direction: Southwest	
Photo Description: View of the affected area.	

Photographic Log



Photo Number: 3	
Photo Direction: West	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: West	
Photo Description: View of the affected area.	


Photographic Log

Photo Number: 5	 <p>WGSR4 32.06838, ±16ft -103.67091 ft 3268 T SW233</p> <p>26May23 11:05 MOC Jennings Riser Release Orla Rd, Jal NM 88252, US © 26-May-23 11:05:42</p>
Photo Direction: Southwest	
Photo Description: View of the affected area.	

Photo Number: 6	 <p>WGSR4 32.06833, -103.67115 ft 3267 T SE135</p> <p>26May23 11:06 MOC Jennings Riser Release Orla Rd, Jal NM 88252, US © 26-May-23 11:06:10</p>
Photo Direction: Southeast	
Photo Description: View of the affected area.	


Photographic Log

Photo Number: 7	 <p>7/12/23, 11:24 AM +32.068904,-103.670109 NM, Jal</p>
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photo Number: 8	 <p>7/12/23, 11:24 AM +32.068904,-103.670109 NM, Jal</p>
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 9	 <p>7/12/23, 11:25 AM +32.068525,-103.670299 NM, Jal</p>
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>7/12/23, 11:29 AM +32.068501,-103.670604 NM, Jal</p>
Photo Direction: West	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photo Number: 12	
Photo Direction: West	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log


Photo Number: 13	 <p>7/19/23, 6:10 AM +32.068505,-103.670732 NM, Jal</p>
Photo Direction: Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 14	 <p>7/19/23, 6:11 AM +32.068743,-103.670227 NM, Jal</p>
Photo Direction: South	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 15	 <p>7/19/23, 6:12 AM +32.068579, -103.670179</p>
Photo Direction: North	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 16	 <p>7/19/23, 6:12 AM +32.068483, -103.670179 NM, Jal</p>
Photo Direction: West	
Photo Description: View of the remediated area after backfill and regrading.	

Appendix D

Laboratory Analytical Reports



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

July 10, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: JENNINGS RISER

Enclosed are the results of analyses for samples received by the laboratory on 07/06/23 14:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 2 1/2' (H233447-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	2.61	
Toluene*	<0.050	0.050	07/06/2023	ND	1.92	95.9	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.08	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.30	105	6.00	1.58	
Total BTX	<0.300	0.300	07/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/10/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	192	96.1	200	5.21	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	197	98.4	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 137 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 1 (H233447-02)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	2.61	
Toluene*	<0.050	0.050	07/06/2023	ND	1.92	95.9	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.08	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	07/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/10/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	192	96.1	200	5.21	
DRO >C10-C28*	11.1	10.0	07/07/2023	ND	197	98.4	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	07/07/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 1 (H233447-03)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	2.61	
Toluene*	<0.050	0.050	07/06/2023	ND	1.92	95.9	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.08	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	07/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/10/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	192	96.1	200	5.21	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	197	98.4	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 1 (H233447-04)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	2.61	
Toluene*	<0.050	0.050	07/06/2023	ND	1.92	95.9	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.08	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	07/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	192	96.1	200	5.21	
DRO >C10-C28*	<10.0	10.0	07/07/2023	ND	197	98.4	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	07/07/2023	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 2' (H233447-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	2.61		
Toluene*	<0.050	0.050	07/06/2023	ND	1.92	95.9	2.00	1.00		
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.08	104	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.30	105	6.00	1.58		
Total BTEX	<0.300	0.300	07/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	192	96.1	200	5.21	
DRO >C10-C28*	<10.0	10.0	07/07/2023	ND	197	98.4	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	07/07/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 2 (H233447-06)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	2.61	
Toluene*	<0.050	0.050	07/06/2023	ND	1.92	95.9	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.08	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	07/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	192	96.1	200	5.21	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	197	98.4	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 2 (H233447-07)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	2.61	
Toluene*	<0.050	0.050	07/06/2023	ND	1.92	95.9	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.08	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	07/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	192	96.1	200	5.21	
DRO >C10-C28*	<10.0	10.0	07/07/2023	ND	197	98.4	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	07/07/2023	ND					

Surrogate: 1-Chlorooctane 137 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 4' (H233447-08)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	2.61	
Toluene*	<0.050	0.050	07/06/2023	ND	1.92	95.9	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.08	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.30	105	6.00	1.58	
Total BTX	<0.300	0.300	07/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	192	96.1	200	5.21	
DRO >C10-C28*	<10.0	10.0	07/07/2023	ND	197	98.4	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	07/07/2023	ND					

Surrogate: 1-Chlorooctane 135 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 3 (H233447-09)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	2.61	
Toluene*	<0.050	0.050	07/06/2023	ND	1.92	95.9	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.08	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.30	105	6.00	1.58	
Total BTEx	<0.300	0.300	07/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	07/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	194	97.1	200	5.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	202	101	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 3 (H233447-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	2.61		
Toluene*	<0.050	0.050	07/06/2023	ND	1.92	95.9	2.00	1.00		
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.08	104	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.30	105	6.00	1.58		
Total BTEX	<0.300	0.300	07/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	194	97.1	200	5.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	202	101	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 5' (H233447-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTEX	<0.300	0.300	07/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	194	97.1	200	5.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	202	101	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 4 (H233447-12)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTX	<0.300	0.300	07/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	07/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	194	97.1	200	5.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	202	101	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 4 (H233447-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTEx	<0.300	0.300	07/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	194	97.1	200	5.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	202	101	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 4' (H233447-14)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTEx	<0.300	0.300	07/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	07/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	194	97.1	200	5.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	202	101	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/06/2023
 Reported: 07/10/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 5' (H233447-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTX	<0.300	0.300	07/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	194	97.1	200	5.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	202	101	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ETECH Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: Zach Conder				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>													
Address: P.O. Box 301				Company: ETECH																	
City: Lovington		State: NM		Zip: 88260		Attn:															
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																	
Project #: 18266		Project Owner:		City:																	
Project Name: Jennings Riser				State: Zip:																	
Project Location: Rural Lea CO, NM				Phone #:																	
Sampler Name: Dried Onfirecrops				Fax #:																	

FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX					PRESERV.		SAMPLING		DATE		TIME			
										GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
1	SP1 @ 2 1/2'											X				X				7/5/23	08:30	X	X	X
2	NW1											X				X				7/5/23	08:30	X	X	X
3	NW1											X				X				7/5/23	09:00	X	X	X
4	SW1											X				X				7/5/23	09:30	X	X	X
5	SP2 @ 2'											X				X				7/5/23	10:00	X	X	X
6	NW2											X				X				7/5/23	10:30	X	X	X
7	SW2											X				X				7/5/23	11:00	X	X	X
8	SP3 @ 9'											X				X				7/5/23	11:30	X	X	X
9	NW3											X				X				7/5/23	12:00	X	X	X
10	SW3											X				X				7/5/23	12:30	X	X	X

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Relinquished By:		Date: 7-6-23		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 1442				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							

Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 		Please email results to pm@etechenv.com.	
---	--	---	--	--------------------------------------	--	--	--

2 Day



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: Zach Lorder				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
Address: P.O. Box 301				Company: Etech																	
City: Lovington		State: NM		Zip: 88260		Attn:															
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																	
Project #: 18266		Project Owner:		City:																	
Project Name: Jennings Liser				State:																Zip:	
Project Location: Rural 6ca 10, NM				Phone #:																	
Sampler Name: Oried Ontiveros				Fax #:																	

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
		H233447																		
		11	SP4 @ 5'	✓	1			X					X		7/6/23	09:00	X	X	X	
		12	NW4	✓	1			X					X		7/6/23	09:30	X	X	X	
		13	SW4	✓	1			X					X		7/6/23	10:00	X	X	X	
		14	SP5 @ 4'	✓	1			X					X		7/6/23	10:30	X	X	X	
		15	SP6 @ 5'	✓	1			X					X		7/6/23	11:00	X	X	X	

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Relinquished By: Date: 7-6-23 Time: 14:42	Received By: Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: Please email results to pm@etechenv.com.
Relinquished By: Date: Time:	Received By: Date: Time:	Delivered By: (Circle One) Sampler - UPS - Bus - Other: 0.4ci/-0.2ci #113 Sample Condition: Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials)

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

July 13, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: JENNINGS RISER

Enclosed are the results of analyses for samples received by the laboratory on 07/10/23 16:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ 4' (H233502-01)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.77	88.5	2.00	4.51		
Toluene*	<0.050	0.050	07/12/2023	ND	1.88	93.9	2.00	5.25		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.1	2.00	5.26		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.58	93.0	6.00	4.79		
Total BTX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	07/12/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2023	ND	179	89.7	200	9.60	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	189	94.5	200	4.31	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 5 (H233502-02)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.89	94.3	2.00	8.57	
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34	
Total BTEx	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2023	ND	179	89.7	200	9.60	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	189	94.5	200	4.31	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 5 (H233502-03)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/12/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2023	ND	179	89.7	200	9.60	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	189	94.5	200	4.31	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 8 @ 4' (H233502-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTEx	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 9 @ 4' (H233502-05)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/12/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 1 (H233502-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTEx	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 2 (H233502-07)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.89	94.3	2.00	8.57	
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34	
Total BTEX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/12/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 10 @ 4' (H233502-08)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/12/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 11 @ 4' (H233502-09)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/12/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Zach Conder				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: P.O. Box 301				Company: Etech															
City: Lovington		State: NM		Zip: 88260		Attn:													
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:		City:													
Project #: 18266		Project Owner:		State:		Zip:													
Project Name: Jennings River				Phone #:															
Project Location: Rural Lea Co., NM				Fax #:															
Sampler Name: David Ontiveros																			

FOR LAB USE ONLY		GRAB OR (COMP. #)	CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
H233502																	
1	SP7@4'	C	1			X				X			7/10/23	7:00	X	X	X
2	SW5	C	1			X				X			7/10/23	7:30	X	X	X
3	NW5	C	1			X				X			7/10/23	08:00	X	X	X
4	SP8@4'	C	1			X				X			7/10/23	08:30	X	X	X
5	SP9@4'	C	1			X				X			7/10/23	09:00	X	X	X
6	EW1	C	1			X				X			7/10/23	09:30	X	X	X
7	WW2	C	1			X				X			7/10/23	10:00	X	X	X
8	SP10@4'	C	1			X				X			7/10/23	10:30	X	X	X
9	SP11@4'	C	1			X				X			7/10/23	11:00	X	X	X

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Relinquished By: Date: 7-10-23 Time: 1614	Received By: Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:
--	---	---

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 3.8e #140

Sample Condition
 Cool ☒ Yes ☐ No
 Intact ☒ Yes ☐ No

CHECKED BY:
 (initials)
 TO

Please email results to pm@etechenv.com.

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

July 14, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: JENNINGS RISER

Enclosed are the results of analyses for samples received by the laboratory on 07/11/23 16:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/11/2023
 Reported: 07/14/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 12 @ 4' (H233534-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	1.88	94.0	2.00	0.696	
Toluene*	<0.050	0.050	07/13/2023	ND	1.95	97.3	2.00	0.0976	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.26	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.06	101	6.00	1.72	
Total BTX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	208	104	200	0.413	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	208	104	200	0.292	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/11/2023
 Reported: 07/14/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 13 @ 4' (H233534-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	1.88	94.0	2.00	0.696	
Toluene*	<0.050	0.050	07/13/2023	ND	1.95	97.3	2.00	0.0976	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.26	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.06	101	6.00	1.72	
Total BTEx	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	208	104	200	0.413	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	208	104	200	0.292	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/11/2023
 Reported: 07/14/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 14 @ 4' (H233534-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	1.88	94.0	2.00	0.696	
Toluene*	<0.050	0.050	07/13/2023	ND	1.95	97.3	2.00	0.0976	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.26	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.06	101	6.00	1.72	
Total BTEx	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/13/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	208	104	200	0.413	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	208	104	200	0.292	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/11/2023
 Reported: 07/14/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 15 @ 4' (H233534-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	1.88	94.0	2.00	0.696		
Toluene*	<0.050	0.050	07/13/2023	ND	1.95	97.3	2.00	0.0976		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.26		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.06	101	6.00	1.72		
Total BTEx	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/13/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	208	104	200	0.413	
DRO >C10-C28*	25.4	10.0	07/13/2023	ND	208	104	200	0.292	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/11/2023
 Reported: 07/14/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 2 (H233534-05)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	2.02	101	2.00	0.582	
Toluene*	<0.050	0.050	07/12/2023	ND	2.03	101	2.00	0.0219	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	0.829	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.45	108	6.00	0.336	
Total BTX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	07/13/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	208	104	200	0.413	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	208	104	200	0.292	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/11/2023
 Reported: 07/14/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 3 (H233534-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	2.02	101	2.00	0.582		
Toluene*	<0.050	0.050	07/12/2023	ND	2.03	101	2.00	0.0219		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	0.829		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.45	108	6.00	0.336		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/13/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	208	104	200	0.413	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	208	104	200	0.292	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/11/2023
 Reported: 07/14/2023
 Project Name: JENNINGS RISER
 Project Number: 18266
 Project Location: RURAL LEA CO., NM

Sampling Date: 07/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 6 (H233534-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	2.02	101	2.00	0.582		
Toluene*	<0.050	0.050	07/12/2023	ND	2.03	101	2.00	0.0219		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	0.829		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.45	108	6.00	0.336		
Total BTEx	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	07/13/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	208	104	200	0.413	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	208	104	200	0.292	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

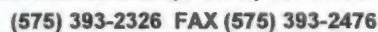
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



*Sol 7-12-23

7-12-23

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

July 18, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: JENNINGS RISER

Enclosed are the results of analyses for samples received by the laboratory on 07/17/23 15:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	JENNINGS RISER	Sampling Condition:	Cool & Intact
Project Number:	18266	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE RURAL LEA CO., NM		

Sample ID: EW 2 - 2 (H233689-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	07/18/2023	ND	416	104	400	3.77		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

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

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

Appendix E

Regulatory Correspondence

From: [Lance Crenshaw](#)
To: [Enviro, OCD, EMNRD](#)
Cc: [Joel Lowry](#); jbroom@mewbourne.com; [Connor Walker](#); [Ben Arguijo](#)
Subject: Confirmation Sampling Notification
Date: Wednesday, July 12, 2023 12:11:47 PM

This email serves as notice that Etech intends to collect excavation confirmation soil samples on July 17, 2023, from the following locations/reportable release sites:

Mewbourne Oil Co – Jennings Riser- nAPP2315760661

Mewbourne Oil Co – Chile Verde Water Transfer Line - nAPP2315849467

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email lance@etechenv.com

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

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

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

CONDITIONS

Action 251546

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 251546
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Operator did not meet 19.15.29.12D (1a) NMAC. Forbearance given on 10/06/2023. Release resolved.	11/29/2023