

Incident ID	nAPP22304406333
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>~130</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 type="checkbox"/> Yes <input checked="" 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

Page 4

Incident ID	nAPP22304406333
District RP	
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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: Meredith O'Brien Title: Sr. Environmental Engineer

Signature: Meredith O'Brien Date: 2/2/2023

email: mobrien@legacyreserves.com Telephone: (720) 327-1543

OCD Only

Received by: Jocelyn Harimon Date: 02/02/2023

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Meredith O'Brien Title: Sr. Environmental Engineer
Signature: Meredith O'Brien Date: 2/2/2023
email: mobrien@legacyreserves.com Telephone: (720) 327-1543

OCD Only

Received by: Jocelyn Harimon Date: 02/02/2023

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 02/20/2023

Site Assessment Summary and Proposed Remediation Workplan

Legacy Reserves Operating, LP Cooper Jal Unit #201

Lea County, New Mexico
Unit Letter H, Section 24, Township 24 South, Range 36 East
Latitude 32.206131 North, Longitude 103.212103 West
NMOCD Reference No. NAPP2230440633

Prepared By:

Etech Environmental & Safety Solutions, Inc.
2617 W. Marland
Hobbs, New Mexico 88240



Zach Conder



Midland • San Antonio • Lubbock • Hobbs • Lafayette

TABLE OF CONTENTS

	<i>Section</i>
PROJECT INFORMATION.....	1.0
SITE CHARACTERIZATION.....	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE.....	3.0
INITIAL SITE ASSESSMENT.....	4.0
PROPOSED REMEDIATION PLAN.....	5.0
ALTERNATIVE SAMPLING PLAN.....	6.0
TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED.....	7.0
RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN.....	8.0
LIMITATIONS.....	9.0
DISTRIBUTION.....	10.0

FIGURES

Figure 1 - Topographic Map
Figure 2 - Aerial Proximity Map
Figure 3 - Site and Sample Location Map

TABLES

Table 1 - Concentrations of BTEX, TPH, and Chloride in Soil

APPENDICES

Appendix A - Depth to Groundwater Information
Appendix B - Field Data and Soil Profile Logs
Appendix C - Laboratory Analytical Reports
Appendix D - Photographic Log

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Legacy Reserves Operating, LP, has prepared this *Site Assessment Summary and Proposed Remediation Workplan* for the release site known as the Cooper Jal Unit #201 (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.206131 Longitude: -103.212103

Provided GPS are in WGS84 format.

Site Name:	Cooper Jal Unit #201	Site Type:	Pipeline
Date Release Discovered:	10/30/2022	API # (if applicable):	30-025-09628

Unit Letter	Section	Township	Range	County
H	24	24S	36E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name RRR Land & Cattle Co.)

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) 707 bbls	Volume Recovered (bbls) 240 bbls
	Is the concentration of dissolved chloride 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:

Rupture in injection line at valve box, filling a manway hatch and overflowing into pasture.

Initial Response

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the NMOCD Form C-141 are available on 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 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?	~130 Feet	
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
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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
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Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" 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 and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on 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 Standard for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
~130 Feet	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	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 INITIAL SITE ASSESSMENT

On December 13, 2022, Etech conducted an initial site assessment. During the initial site assessment, six (6) hand-augered soil bores (V 1, V 2, V 3, V 4, V 5 and RP 1) were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In the course of advancing the hand-augered soil bores, twelve (12) delineation soil samples (V 1 @ 0', V 1 @ 2', V 2 @ 0', V 2 @ 3' - R, V 3 @ 0', V 3 @ 4', V 4 @ 0', V 4 @ 2' - R, V 5 @ 0', V 5 @ 1', RP 1 @ 4' and RP 1 @ 5') were collected from the soil bores and field-screened for concentrations of TPH with visual/olfactory observations and chloride utilizing a Hach Quantab ® chloride test kit. The collected soil samples were submitted to a certified, commercial laboratory for analysis of BTEX, TPH and chloride concentrations.

In addition, Etech collected eighteen (18) horizontal delineation soil samples (EH 1 @ 0', EH 1 @ 1', EH 2 @ 0', EH 2 @ 1', EH 3 @ 0', EH 3 @ 1' NH 1 @ 0', NH 1 @ 1', NH 2 @ 0', NH 2 @ 1', SH 1 @ 0', SH 1 @ 1', SH 2 @ 0', SH 2 @ 1', WH 1 @ 0', WH 1 @ 1', WH 2 @ 0' and WH 2 @ 1') in an effort to further characterize the horizontal extent of the release. The collected soil samples were submitted to a certified, commercial laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standards in all of the submitted soil samples.

On December 30, 2022, Etech returned to the Site to continue delineation activities. Laboratory analytical results from delineation soil samples collected during the initial site assessment indicated chloride concentrations were above the NMOCD Reclamation standard at soil bore locations V 2 (V 2 @ 3' - R, 1,440 mg/kg) and V 4 (V 4 @ 2' - R, 1,880 mg/kg). Utilizing mechanical equipment, soil bore locations V 2 and V 4 were advanced until field observations indicated concentrations of chloride were below the NMOCD Reclamation Standard and/or NMOCD Closure Criterion. Delineation soil samples (V 2 @ 5' and V 4 @ 5') were collected and submitted to the laboratory for analysis of chloride concentrations.

Furthermore, two test trenches (T.T. 1 and T.T. 2) were installed inside the open repair excavation in areas visually impacted by historical hydrocarbon contamination. Four (4) field soil samples (T.T. 1 @ 5', T.T. 1 @ 11', T.T. 2 @ 5' and T.T. 2 @ 12') were collected and screened for the presense of TPH by visual and olfactory observations. The collected soil samples were submitted to the laboratory for analysis of TPH concentrations. Analytical results indicated TPH concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation standard in all of the submitted soil samples.

Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond four (4) feet below ground surface (bgs), and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was adequately defined. A "Site and Sample Location Map" is provided as Figure 3. "Concentrations of BTEX, TPH and Chloride in Soil" is provided as Table 1. Laboratory analytical reports are provided in Appendix C.

5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, Legacy Reserves Operating, LP, proposes the following remediation activities designed to advance the Site toward an approved closure:

- In accordance with NMOCD regulations, excavate impacted soil affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards within the approximate 15,515-square-foot area characterized by delineation sample points to an estimated depth of four (4) feet bgs, or until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards.
- Temporarily stockpile excavated material on-site atop an impermeable liner, pending final disposition at an NMOCD-approved disposal facility.

- Collect confirmation soil samples for laboratory analysis from the base and sidewalls of the excavated area(s) representative of every 600 square feet.
- Upon receiving laboratory analytical results from confirmation soil samples, backfill the excavated area(s) with locally sourced, non-impacted "like" material.
- Upon completion of remediation activities, prepare a *Remediation Summary and Soil Closure Request* detailing field activities and laboratory analytical results from confirmation soil samples.

6.0 ALTERNATIVE SAMPLING PLAN

Based on laboratory analytical results, the nature of the impacted area, and the estimated depth to groundwater, Legacy proposes that the per-sample area is increased from 200 square feet to 600 square feet. Legacy believes that the lack of variability in surface topography, the relatively consistent contaminant levels reported in the laboratory results, and the relatively shallow depth of contaminant intrusion justify the relaxation of sampling frequency.

7.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within ninety (90) days of receiving necessary approval(s) of the *Site Assessment Summary and Proposed Remediation Plan*. Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, it is estimated that approximately 2,600 cubic yards of impacted soil is in need of removal.

8.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be 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.

9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Site Assessment Summary and Proposed Remediation Workplan* 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 Legacy Reserves Operating, LP. Use of the information contained in this report is prohibited without the consent of Etech and/or Legacy Reserves Operating, LP.

10.0 DISTRIBUTION

Legacy Reserves Operating, LP

303 W. Wall St.

Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

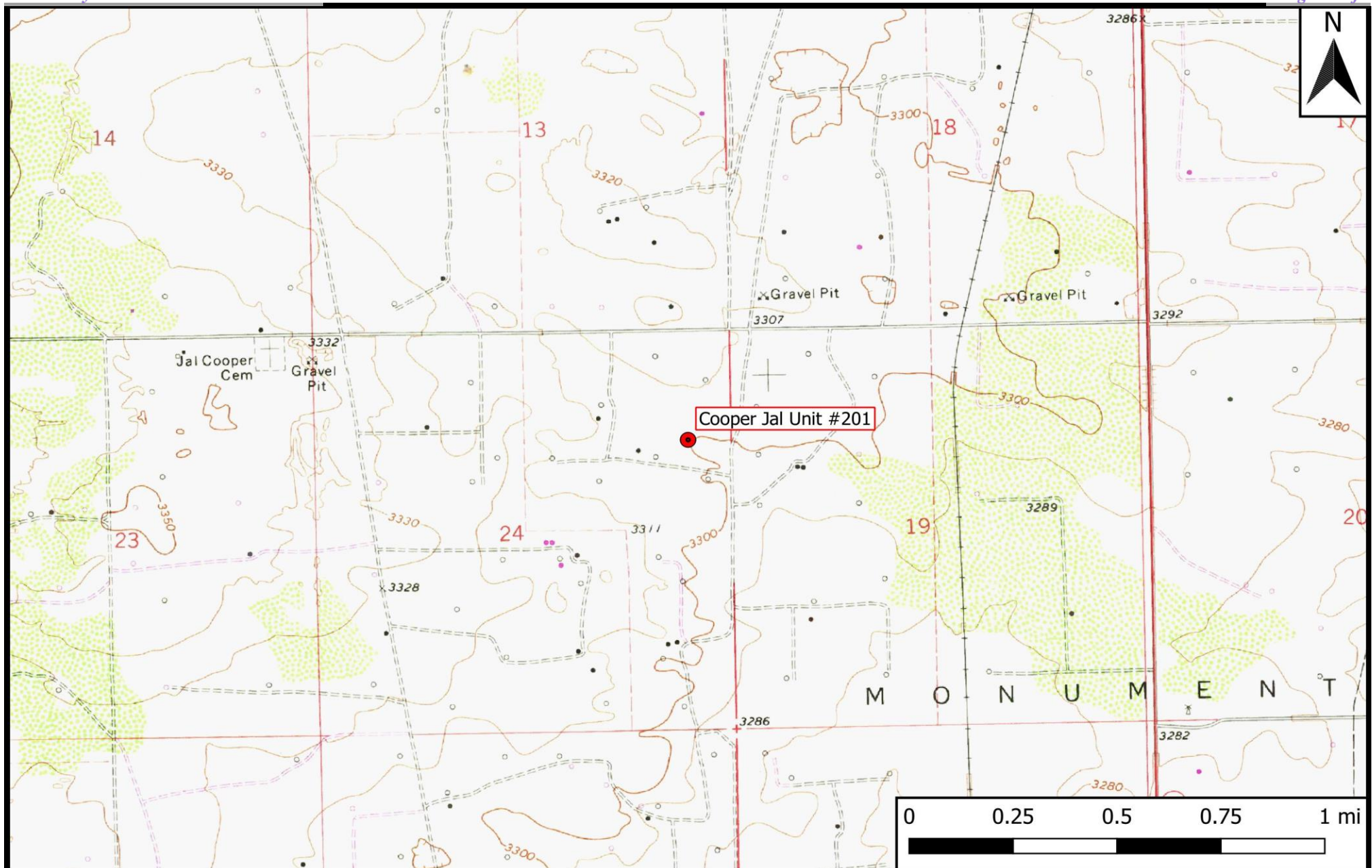
1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1

Topographic Map



Legend

● Site Location

Figure 1

Topographic Map
 Legacy Reserves Operating, LP
 Cooper Jal Unit #201
 GPS: 32.206131, -103.212103
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

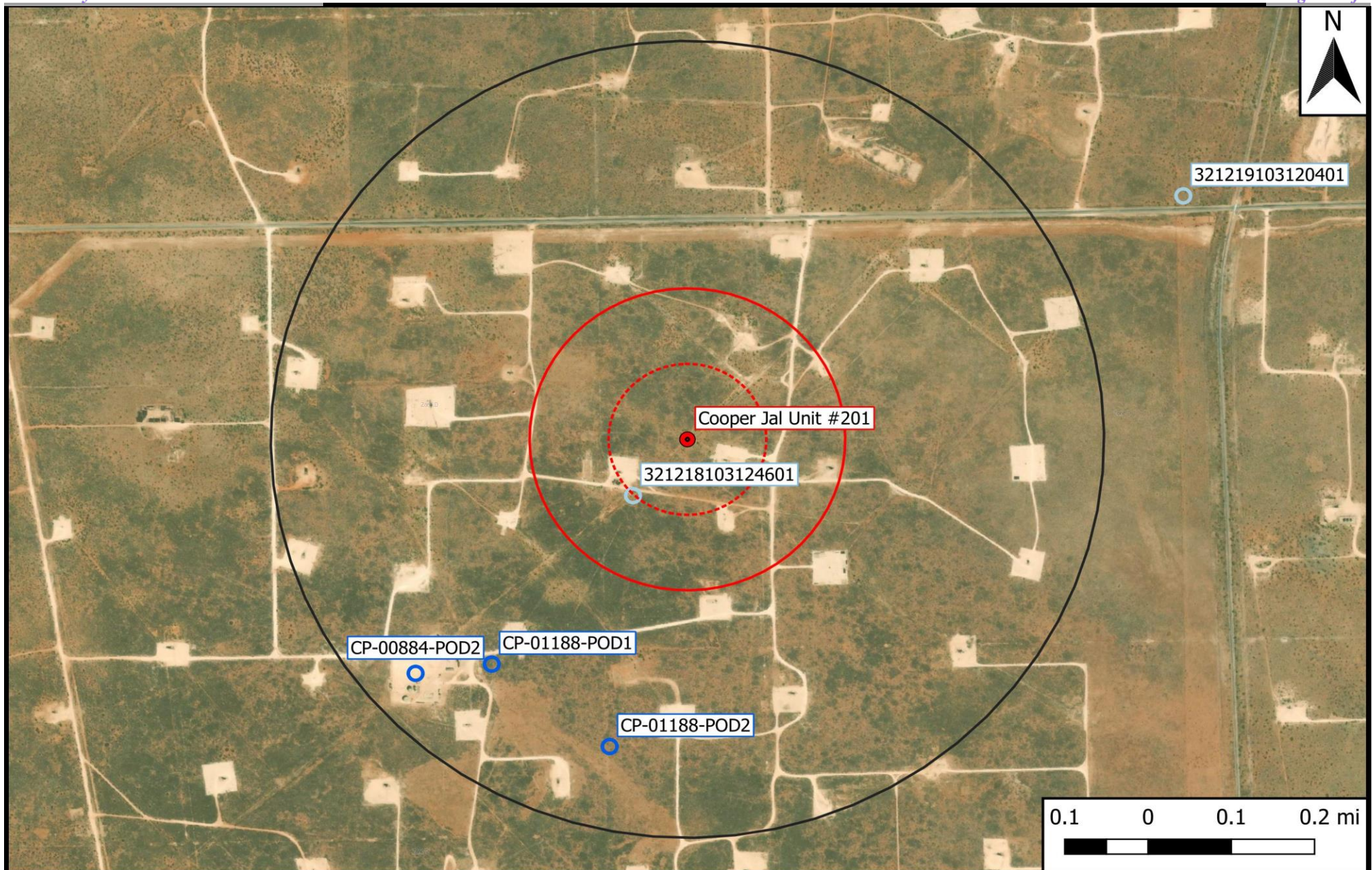
Drafted: mag

Checked: zc

Date: 11/15/22

Figure 2

Aerial Proximity Map



Legend

- Site Location
- Well - NMOSE
- Well - USGS
- Potash Mine Workings
- Medium/High Karst
- - - 500 Ft Radius
- 1000 Ft Radius
- 0.5 Mi Radius
- 1% Annual Flood Chance
- Lake/Freshwater Pond
- Emergent/Forested Wetlands
- Riverine

Figure 2
 Aerial Proximity Map
 Legacy Reserves Operating, LP
 Cooper Jal Unit #201
 GPS: 32.206131, -103.212103
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

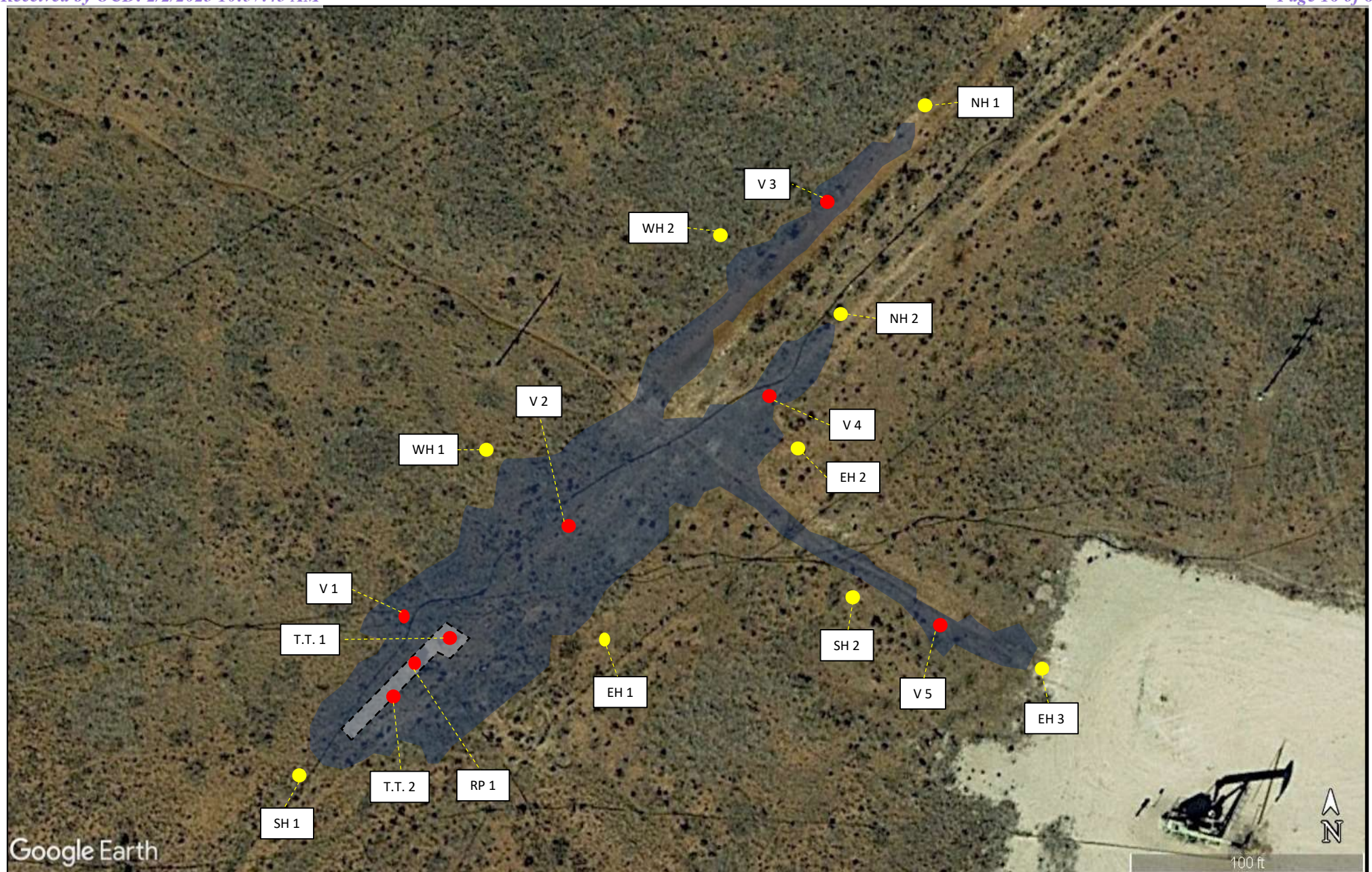
Drafted: mag

Checked: zc

Date: 11/15/22

Figure 3

Site and Sample Location Map



Legend:





-  Sample Point
-  Affected Area
-  Horizontal Sample Point
-  Initial Response/Repair Excavation

Figure 3

Site and Sample Location Map
Legacy Reserves Operating, LP
Cooper Jal Unit #201
GPS: 32.206131, -103.212103
Lea County



Drafted: ZPC

Checked: jwl

Date: 1/31/23

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
Legacy Reserves Operating, LP
Cooper Jal Unit #201
NMOCD Ref. #: NAPP2230440633

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	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)
EH 1 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EH 1 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH 2 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EH 2 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EH 3 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EH 3 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH 1 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 1 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 2 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 2 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SH 1 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SH 1 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 2 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SH 2 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WH 1 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH 1 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 2 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 2 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
RP 1 @ 4'	12/13/2022	4	In-Situ	<0.050	0.348	23.4	354	377	60.1	438	816
RP 1 @ 5'	12/13/2022	5	In-Situ	<0.050	<0.300	12.4	339	351	59.3	411	1,980
V 1 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
V 1 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
V 2 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
V 2 @ 3' - R	12/13/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,440
V 2 @ 5'	12/30/2022	5	In-Situ	-	-	-	-	-	-	-	2,560
V 3 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
V 3 @ 4'	12/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,280
V 4 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	656
V 4 @ 2' - R	12/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,880
V 4 @ 5'	12/30/2022	5	In-Situ	-	-	-	-	-	-	-	2,000
V 5 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
V 5 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
T.T. 1 @ 5'	12/30/2022	5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
T.T. 2 @ 5'	12/30/2022	5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
T.T. 1 @ 11'	12/30/2022	11	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
T.T. 2 @ 12'	12/30/2022	12	In-Situ	-	-	<10.0	84.4	84.4	<10.0	84.4	-

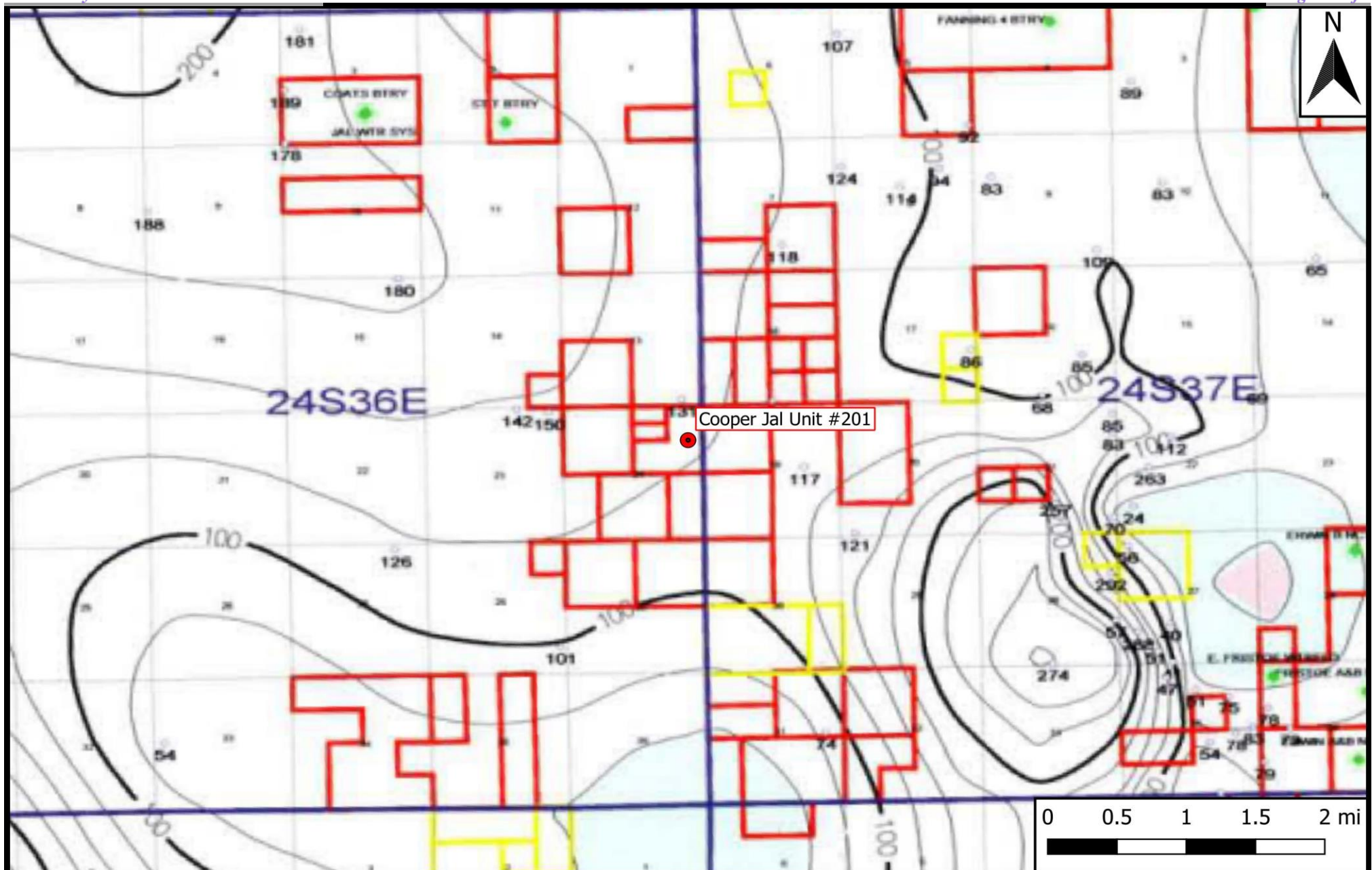
Dash (-): Sample not analyzed for that constituent.

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
 Legacy Reserves Operating, LP
 Cooper Jal Unit #201
 GPS: 32.206131, -103.212103
 Lea County



Drafted: mag

Checked: zc

Date: 11/15/22



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 01188 POD1		CP	LE	2	1	4	24	24S	36E	668131	3564233	589	176	136	40
CP 01188 POD2		CP	LE	3	2	4	24	24S	36E	668359	3564067	635	171	134	37
CP 00884 POD2		CP	LE	1	1	4	24	24S	36E	667984	3564215*	705	173		

Average Depth to Water: **135 feet**

Minimum Depth: **134 feet**

Maximum Depth: **136 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 668509.42

Northing (Y): 3564685.66

Radius: 804.67

*UTM location was derived from PLSS - see Help

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


11/15/22 12:55 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)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	CP 00884 POD2	1	1	4	24	24S	36E	667984	3564215* 
<hr/>									
Driller License: 1731		Driller Company:				HARRISON & COOPER, INC DBA: HCI DRILLING			
Driller Name:		COOPER, KENNY.EE.NER							
Drill Start Date: 10/01/2013		Drill Finish Date:				10/01/2013		Plug Date:	
Log File Date:		PCW Rcv Date:				04/20/2015		Source: Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 6.00		Depth Well:				173 feet		Depth Water:	
<hr/>									

*UTM location was derived from PLSS - see Help

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

11/15/22 12:56 PM

POINT OF DIVERSION SUMMARY

File Number: _____
(For OSE Use Only)

NEW MEXICO OFFICE OF THE STATE ENGINEER PROOF OF COMPLETION OF WELL

1. OWNER OF WELL (PERMITTEE)

Name: Chevron U.S.A., Inc. Work Phone: (713) 734-3090
 Contact: Scott Foord (Agent of Chevron U.S.A) Home Phone: _____
 Address: 6320 Rothway,
Suite 100
 City: Houston State: TX Zip: 77040

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. NW 1/4 NW 1/4 SE 1/4 Section: 24 Township: 24S Range: 36E N.M.P.M.
 in Lea County.

B. X = N/A feet, Y = N/A feet, N.M. Coordinate System
N/A Zone in the N/A Grant.
 U.S.G.S. Quad Map N/A

C. Latitude: 32 d 12 m 02.79 s Longitude: 103 d 12 m 58.80 s

D. East N/A (m), North N/A (m), UTM Zone 13, NAD (27 or 83)

E. Tract No. N/A, Map No. N/A of the N/A Hydrographic Survey

F. Lot No. N/A, Block No. N/A of Unit/Tract N/A of the
N/A Subdivision recorded in N/A County.

G. Other: N/A

H. Give State Engineer File Number if existing diversion: CP-884 POD2

I. On land owned by (required): Louis Q. Thomas, James R. Pruett and Wendy Pruett

3. WELL INFORMATION

Depth of well 173 feet; Is well cased: Yes;
 Outside diameter of top casing (or hole if not cased) 6 inches;
 If artesian, is well equipped with gate valve: N/A;
 Name of well driller and driller license number; Harrison and Cooper, Inc.,
N.M. License #1731; Date well completed: 10/01/2013.

STATE ENGINEER OFFICE
 NEW MEXICO
 2015 APR 20 PM 9:57

Do Not Write Below This Line

File Number: _____ Trn Number: _____
 Form: wr-11 page 1 of 3

File Number: _____
(For OSE Use Only)

**NEW MEXICO OFFICE OF THE STATE ENGINEER
PROOF OF COMPLETION OF WELL**

4. PUMP TEST

(To be supplied by person or firm making test)

Name and address of the person making the test: N/A - Pump has not been installed at this time. Pump test data will be submitted to NMOSE following pump installation anticipated later this year.

Date of test N/A; Length of test N/A hours;
Depth to water before test N/A feet (above or below) land surface;
Depth to water after test N/A feet (above or below) land surface;
Average discharge N/A GPM;
Specific capacity of well N/A GPM per foot drawdown.

Please attach pump test data.

5. PERMANENT PUMP EQUIPMENT

A. DESCRIPTION OF PUMP

Make: N/A; Type: N/A;
Size of discharge: N/A inches;
If turbine type, give size of column N/A inches;
Diameter of bowls N/A inches; Number of bowls N/A;
Length of suction pipe N/A feet;
Total length of column, bowls and suction pipe N/A feet;
If centrifugal type, give size of pump N/A inches;
Rated capacity of pump, if known N/A GPM; At N/A rev. per min.,
From a depth of N/A feet.

B. DESCRIPTION OF POWER PLANT

Make, type, horsepower, etc., of power plant: N/A
Type of drive connection to pump: N/A
(direct, gearhead, or belt)

C. DISCHARGE OF PUMP

Actual discharge of pump N/A GPM, at N/A rev. per min.,
From a depth of N/A feet; Date of test N/A.

6. DESCRIPTION OF STORAGE RESERVOIR

Length N/A feet; Width N/A feet; Average depth N/A feet.

Do Not Write Below This Line

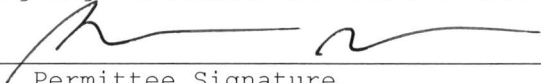
File Number: _____
Form: wr-11

Trn Number: _____
page 2 of 3

STATE ENGINEER OFFICE
DOUGLAS, NEW MEXICO
2015 APR 20 AM 9:57

File Number: _____
(For OSE Use Only)**NEW MEXICO OFFICE OF THE STATE ENGINEER
PROOF OF COMPLETION OF WELL****ACKNOWLEDGEMENT**

(I, We) Scott Foord (Agent of Chevron U.S.A) affirm that the
(Please Print)
foregoing statements are true to the best of (my, our) knowledge and belief.

 _____
Permittee Signature Permittee Signature

STATEMENT OF THE STATE ENGINEER'S REPRESENTATIVE

Well record filed: _____; Field Check: _____;
(mm/dd/year) (mm/dd/year)

Comments: _____

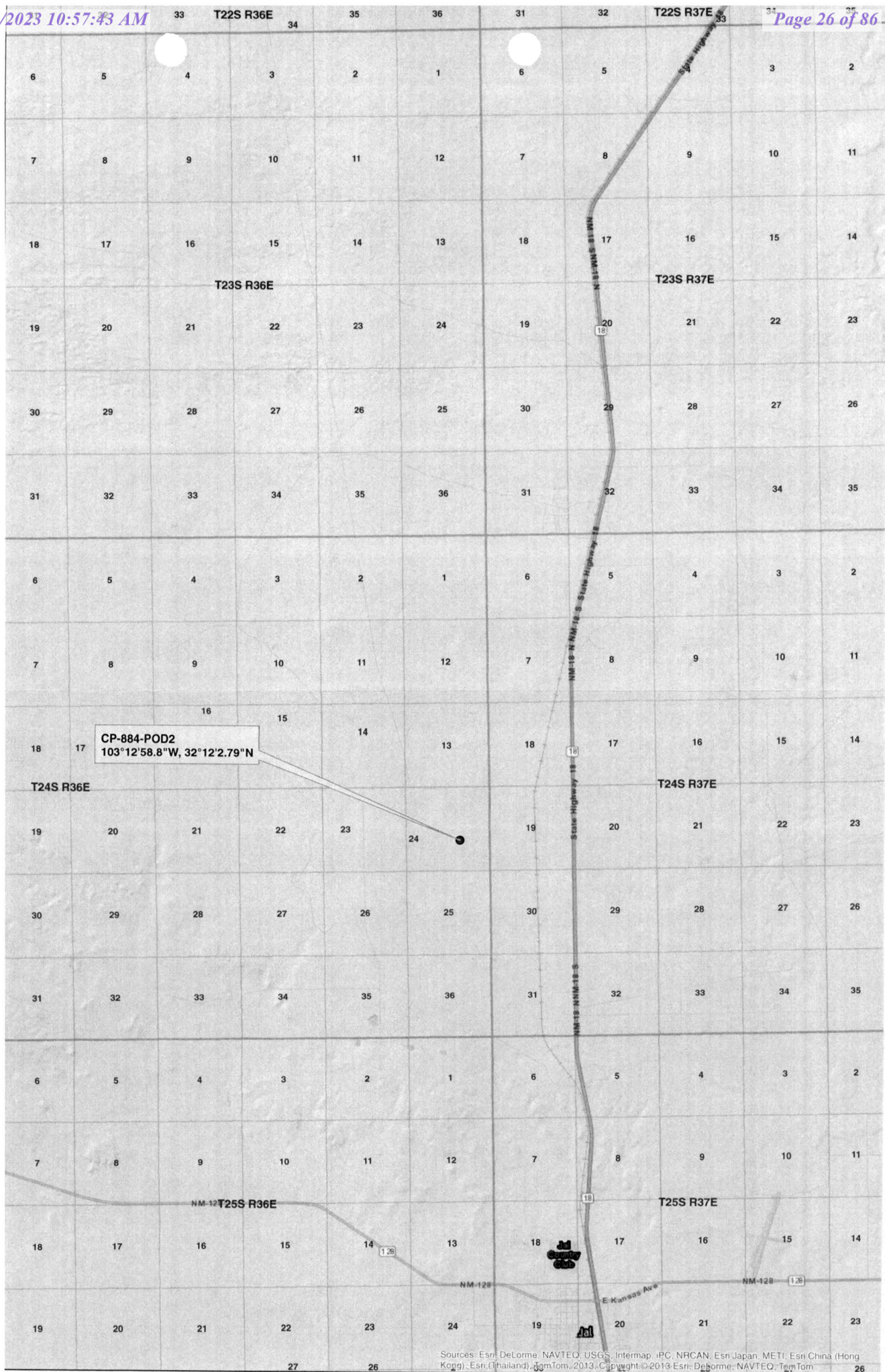
By: _____
Title: _____
Date: _____

STATE ENGINEER OFFICE
DOUGLAS, NEW MEXICO
2015 APR 20 AM 9:57

Do Not Write Below This Line

File Number: _____
Form: wr-11


Trn Number: _____
page 3 of 3





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
	CP 01188 POD1	2	1	4	24	24S	36E	668131	3564233 

Driller License: 1271 **Driller Company:** (DUPLICATE) HARRISON & COOPER, INC.

Driller Name: KENNY COOPER

Drill Start Date: 09/30/2013 **Drill Finish Date:** 09/30/2013 **Plug Date:**

Log File Date: 08/29/2014 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 20 GPM

Casing Size: 4.00 **Depth Well:** 176 feet **Depth Water:** 136 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	163	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	136	176

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.


11/15/22 12:56 PM

POINT OF DIVERSION SUMMARY



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	Tw	Rng	X	Y
	CP 01188 POD2	3	2	4	24	24S	36E	668359	3564067 

Driller License: 1271 **Driller Company:** (DUPLICATE) HARRISON & COOPER, INC.

Driller Name: KENNY COOPER

Drill Start Date: 09/30/2013 **Drill Finish Date:** 09/30/2013 **Plug Date:**

Log File Date: 08/29/2014 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 5 GPM

Casing Size: 4.00 **Depth Well:** 171 feet **Depth Water:** 134 feet

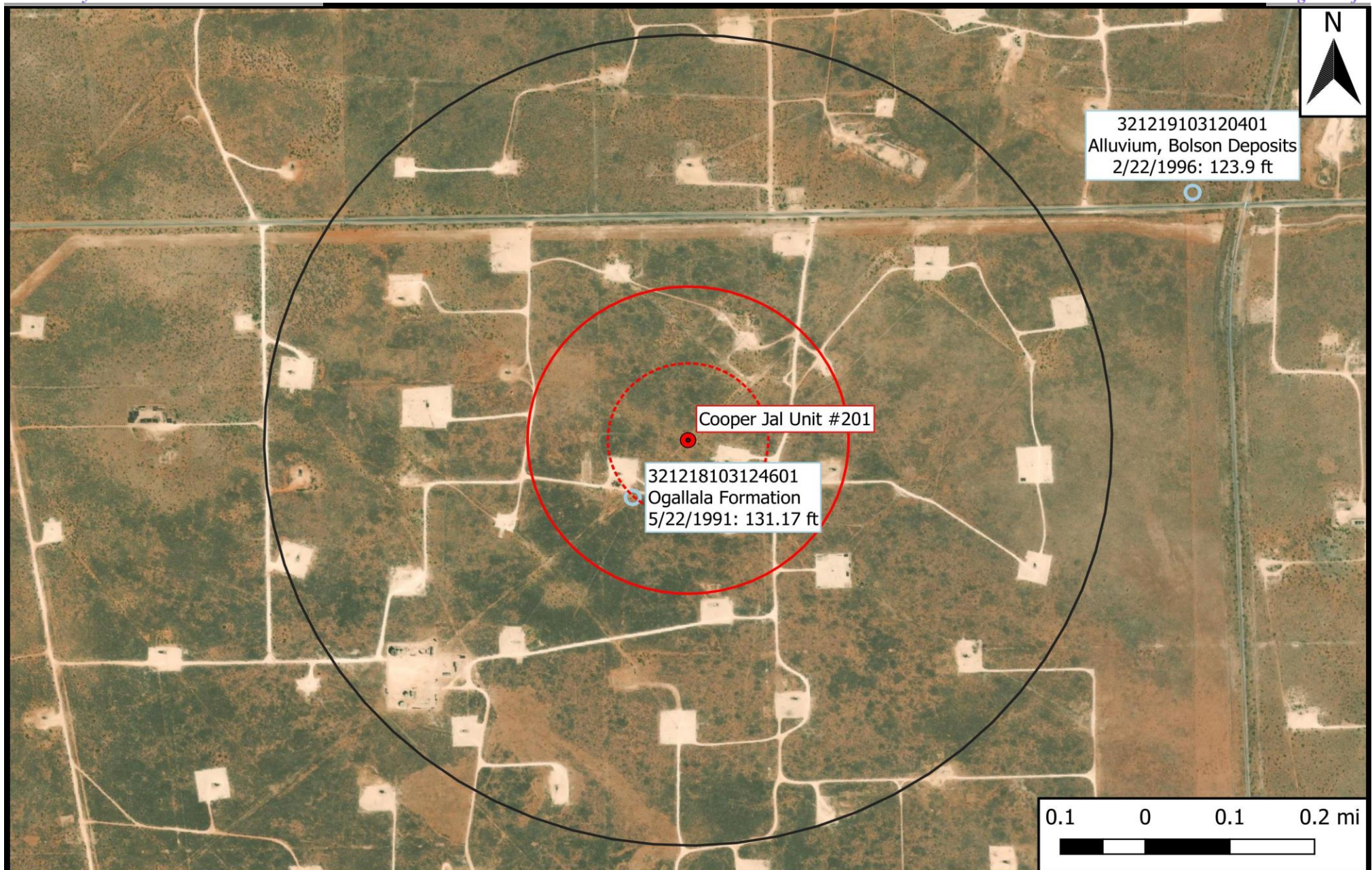
Water Bearing Stratifications:	Top	Bottom	Description
	0	168	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	131	171

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.

11/15/22 12:56 PM

POINT OF DIVERSION SUMMARY



Legend

- Site Location
- Well - USGS
- 500 Ft Radius
- 1000 Ft Radius
- 0.5 Mi Radius

Figure 5

USGS Well Proximity Map
 Legacy Reserves Operating, LP
 Cooper Jal Unit #201
 GPS: 32.206131, -103.212103
 Lea County



Drafted: mag

Checked: zc

Date: 11/15/22



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321218103124601

Minimum number of levels = 1

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

USGS 321218103124601 24S.36E.13.44342

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°12'18", Longitude 103°12'46" NAD27

Land-surface elevation 3,305 feet above NAVD88

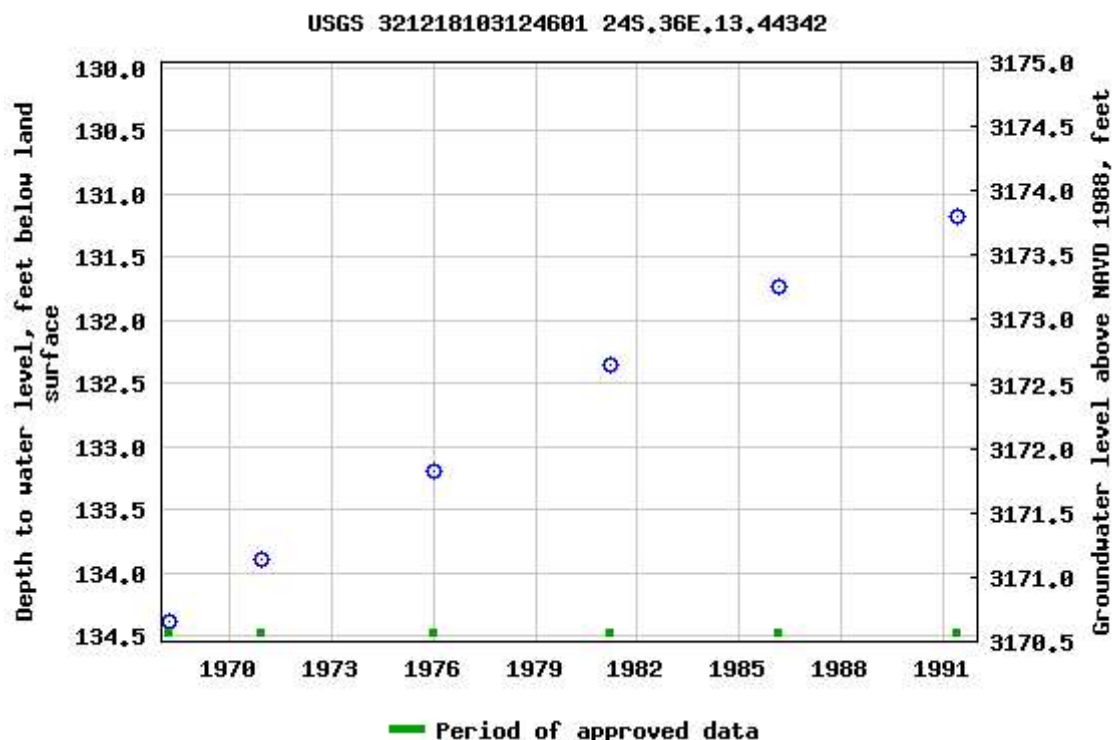
The depth of the well is 151 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-11-15 14:53:18 EST

0.6 0.49 nadww01





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National Water Information System: Web Interface

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Data Category:

Groundwater

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United States

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! Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321219103120401

Minimum number of levels = 1

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

USGS 321219103120401 24S.37E.18.433332

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°12'37", Longitude 103°12'05" NAD27

Land-surface elevation 3,302.10 feet above NGVD29

The depth of the well is 150 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

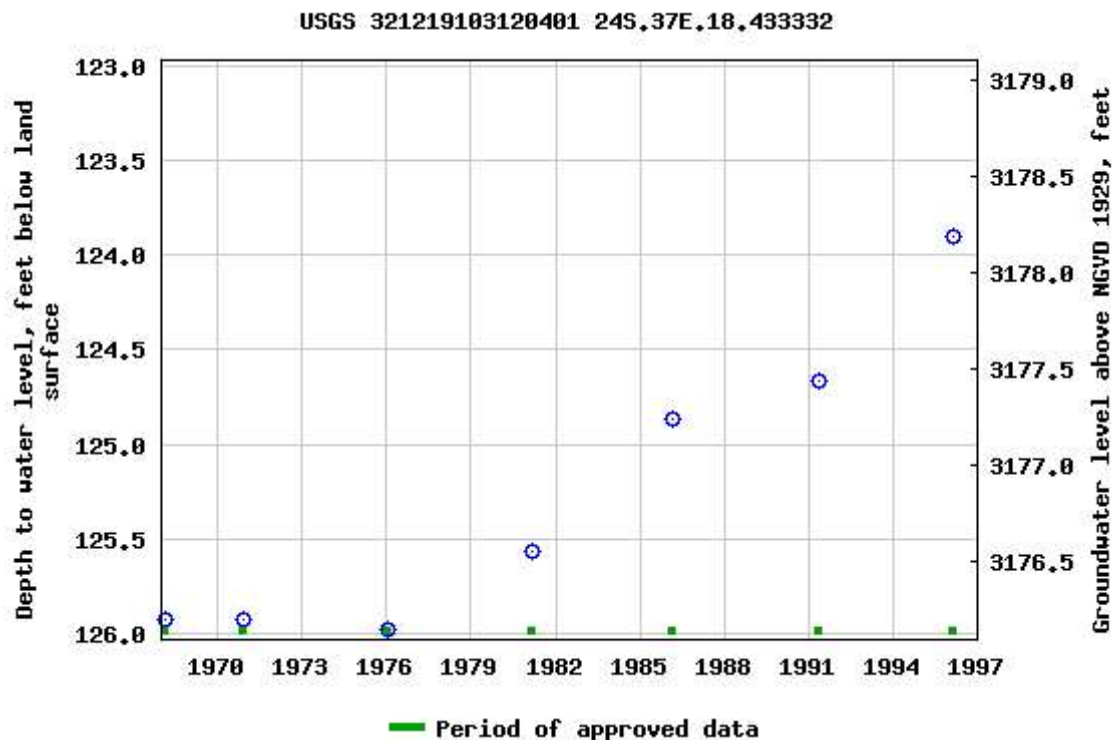
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-11-15 14:53:18 EST

0.57 0.5 nadww01



Appendix B

Field Data and Soil Profile Logs



Sample Log

Date:

12/13/22

Project: Cooper Jal Unit #201

Project Number: 17122

Latitude: 32.206131

Longitude: -103.212103

Sample ID	PID/Odor	Chloride Conc.	GPS
V5 E 0'	—	2.8 328	
V5 E 1'	—	1.4 124	
V5 E 2'	—	1.4 124	
V4 E 0'	—	5.0 712	
V4 E 1'	—	7.0 1840	
V3 E 0'	—	2.8 328	
V3 E 1'	—	7.2 1768	
V3 E 2'	—	7.4 2112	
V2 E 0'	—	2.8 328	
V2 E 1'	—	1.6 148	
V2 E 2'	—	4.2 660	
V1 E 0'	—	2.4 260	
V1 E 1'	—	2.2 228	
V1 E 2'	—	2.4 260	
SH1 E 0'	—	2.4 260	
SH1 E 1'	—	2.0 200	
EH1 E 0'	—	2.4 260	
EH1 E 1'	—	2.9 200	
WH1 E 0'	—	2.4 260	
WH1 E 1'	—	2.4 260	
NH1 E 0'	—	2.4 260	
NH1 E 1'	—	2.0 200	
SH2 E 0'	—	1.2 < 124	
SH2 E 1'	—	2.2 228	
WH2 E 0'	—	3.0 368	
WH2 E 1'	—	2.4 260	
EH2 E 0'	—	2.6 252	
EH2 E 1'	—	2.8 328	
NH2 E 0'	—	2.4 260	
NH2 E 1'	—	3.2 408	
EH3 E 0'	—	2.4 260	
EH3 E 1'	—	3.0 368	
V3 @ 3'	—	6.8 1716	
V3 @ 4'	—	6.8 1716	
V2 @ 3' - R	—	6.8 1716	
V1 @ 2' - R	—	6.6 1604	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Yes

Shy 42

4.6 780

7.4 2112

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



Date: 12-30-22

Project Number: 17122 Latitude: 32.206131 Longitude: -103.212103

[illegible]

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

~~A~~ - lab



Soil Profile

Date: 12-30-22

Project: Cooper Jal Unit #201

Project Number: 17122 Latitude: 32.206131 Longitude: -103.212103

Depth (ft. bgs)

Description

1	Red Sand
2	
3	
4	Caliche
5	Caliche
6	
7	
8	
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Appendix C

Laboratory Analytical Reports



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

January 05, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: COOPER JAL UNIT # 201

Enclosed are the results of analyses for samples received by the laboratory on 01/03/23 15:10.

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:	01/03/2023	Sampling Date:	12/30/2022
Reported:	01/05/2023	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Shalyn Rodriguez
Project Location:	LEGACY - LEA CO NM		

Sample ID: T.T. 1 @ 5' (H230007-01)

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	01/04/2023	ND	205	103	200	3.65		
DRO >C10-C28*	<10.0	10.0	01/04/2023	ND	196	98.0	200	6.33		
EXT DRO >C28-C36	<10.0	10.0	01/04/2023	ND						
<hr/>										
Surrogate: 1-Chlorooctane	102 %	45.3-161								
Surrogate: 1-Chlorooctadecane	105 %	46.3-178								

Sample ID: T.T. 2 @ 5' (H230007-02)

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	01/04/2023	ND	205	103	200	3.65		
DRO >C10-C28*	<10.0	10.0	01/04/2023	ND	196	98.0	200	6.33		
EXT DRO >C28-C36	<10.0	10.0	01/04/2023	ND						
<hr/>										
Surrogate: 1-Chlorooctane	91.8 %	45.3-161								
Surrogate: 1-Chlorooctadecane	92.3 %	46.3-178								

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: 01/03/2023
 Reported: 01/05/2023
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T.T. 2 @ 11' (H230007-03)

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	01/04/2023	ND	205	103	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/04/2023	ND	196	98.0	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/04/2023	ND					
Surrogate: 1-Chlorooctane	89.5 %	45.3-161							
Surrogate: 1-Chlorooctadecane	89.3 %	46.3-178							

Sample ID: T.T. 2 @ 12' (H230007-04)

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	01/04/2023	ND	205	103	200	3.65	
DRO >C10-C28*	84.4	10.0	01/04/2023	ND	196	98.0	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/04/2023	ND					
Surrogate: 1-Chlorooctane	98.9 %	45.3-161							
Surrogate: 1-Chlorooctadecane	102 %	46.3-178							

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*=Accredited Analyte

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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

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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



ORDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

January 04, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: COOPER JAL UNIT # 201

Enclosed are the results of analyses for samples received by the laboratory on 01/03/23 15:10.

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
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	01/03/2023	Sampling Date:	12/30/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Shalyn Rodriguez
Project Location:	LEGACY - LEA CO NM		

Sample ID: V 2 @ 5' (H230006-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	01/04/2023	ND	416	104	400	0.00	

Sample ID: V 4 @ 5' (H230006-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	01/04/2023	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



ORDINAL LABORATORIES

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

December 20, 2022

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: COOPER JAL UNIT # 201

Enclosed are the results of analyses for samples received by the laboratory on 12/14/22 14:50.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: V 1 @ 0' (H225906-01)

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	12/17/2022	ND	2.13	107	2.00	5.45	
Toluene*	<0.050	0.050	12/17/2022	ND	2.24	112	2.00	5.63	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.21	111	2.00	6.51	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.78	113	6.00	5.93	
Total BTX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/16/2022	ND	416	104	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	12/16/2022	ND	198	98.8	200	4.22	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	206	103	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 1 @ 1' (H225906-02)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEx	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	ND	416	104	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	12/16/2022	ND	198	98.8	200	4.22	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	206	103	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.3 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 2 @ 0' (H225906-03)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	ND	416	104	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	12/16/2022	ND	198	98.8	200	4.22	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	206	103	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 86.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.1 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 2 @ 3' - R (H225906-04)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	12/16/2022	ND	416	104	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	12/16/2022	ND	198	98.8	200	4.22	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	206	103	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 3 @ 0' (H225906-05)

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	12/17/2022	ND	2.12	106	2.00	3.08		
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03		
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90		
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84		
Total BTEx	<0.300	0.300	12/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/16/2022	ND	416	104	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	12/16/2022	ND	198	98.8	200	4.22	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	206	103	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 3 @ 4' (H225906-06)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEx	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	12/16/2022	ND	416	104	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	12/16/2022	ND	198	98.8	200	4.22	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	206	103	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 4 @ 0' (H225906-07)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	12/16/2022	ND	416	104	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 68.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.7 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 4 @ 2' - R (H225906-08)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEx	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	12/16/2022	ND	416	104	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 76.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.5 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 5 @ 0' (H225906-09)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEx	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.4 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 5 @ 1' (H225906-10)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEx	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 70.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.2 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SH 1 @ 0' (H225906-11)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 74.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.3 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SH 1 @ 1' (H225906-12)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 64.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.2 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SH 2 @ 0' (H225906-13)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 68.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.7 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SH 2 @ 1' (H225906-14)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.6 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 1 @ 0' (H225906-15)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.4 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 1 @ 1' (H225906-16)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEx	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 67.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.6 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 2 @ 0' (H225906-17)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 59.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 62.5 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 2 @ 1' (H225906-18)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEx	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.6 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 3 @ 0' (H225906-19)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 82.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.7 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 3 @ 1' (H225906-20)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEx	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.4 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WH 1 @ 0' (H225906-21)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 79.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.8 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WH 1 @ 1' (H225906-22)

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	12/17/2022	ND	2.05	102	2.00	2.99		
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80		
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87		
Total BTEx	<0.300	0.300	12/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.3 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WH 2 @ 0' (H225906-23)

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	12/17/2022	ND	2.05	102	2.00	2.99	
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87	
Total BTEx	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.0 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WH 2 @ 1' (H225906-24)

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	12/17/2022	ND	2.05	102	2.00	2.99		
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80		
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87		
Total BTEX	<0.300	0.300	12/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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*=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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NH 1 @ 0' (H225906-25)

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	12/17/2022	ND	2.05	102	2.00	2.99	
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.2 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NH 1 @ 1' (H225906-26)

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	12/17/2022	ND	2.05	102	2.00	2.99		
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80		
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87		
Total BTX	<0.300	0.300	12/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/16/2022	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	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.4 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NH 2 @ 0' (H225906-27)

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	12/17/2022	ND	2.05	102	2.00	2.99		
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80		
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87		
Total BTEX	<0.300	0.300	12/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/16/2022	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	12/16/2022	ND	202	101	200	8.71	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	188	94.1	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.6 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NH 2 @ 1' (H225906-28)

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	12/17/2022	ND	2.05	102	2.00	2.99	
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87	
Total BTEx	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/16/2022	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	12/16/2022	ND	202	101	200	8.71	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	188	94.1	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.2 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: RP 1 @ 4' (H225906-29)

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	12/17/2022	ND	2.05	102	2.00	2.99		
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80		
Total Xylenes*	0.348	0.150	12/17/2022	ND	6.25	104	6.00	2.87	GC-NC1	
Total BTEX	0.348	0.300	12/17/2022	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 135 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	12/16/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	23.4	10.0	12/16/2022	ND	202	101	200	8.71	
DRO >C10-C28*	354	10.0	12/16/2022	ND	188	94.1	200	8.05	
EXT DRO >C28-C36	60.1	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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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: 12/14/2022
 Reported: 12/20/2022
 Project Name: COOPER JAL UNIT # 201
 Project Number: 17122
 Project Location: LEGACY - LEA CO NM

Sampling Date: 12/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: RP 1 @ 5' (H225906-30)

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	12/17/2022	ND	2.05	102	2.00	2.99	
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87	
Total BTEx	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1980	16.0	12/16/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.4	10.0	12/19/2022	ND	202	101	200	8.71	
DRO >C10-C28*	339	10.0	12/19/2022	ND	188	94.1	200	8.05	
EXT DRO >C28-C36	59.3	10.0	12/19/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
A-01	CCV recovery high, all samples ND. Data 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



ORDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ettech Environmental & Safety Solutions, Inc.										BILL TO										ANALYSIS REQUEST																			
Project Manager: Zach Conder										P.O. #:																													
Address: 2617 W Marland										Company: Ettech Environmental																													
City: Hobbs										Attn: Joel Lowry																													
Phone #: (575) 264-9884										Address: 2617 W. Marland																													
Fax #: (575) 264-9884										City: Hobbs																													
Project #: 17122										State: NM Zip: 88240																													
Project Name: Cooper Jal Unit 201										City: Hobbs																													
Project Location: Rural Lea County, NM										State: NM Zip: 88240																													
Sample Name: Matthew Grieco										Phone #: (575) 264-9884																													
Fax #:																																							
FOR LAB USE ONLY																																							
Lab I.D.										Sample I.D.																													
H225946																																							
11 SH1 @ 0'										G 1										12/13/22										X X X									
12 SH1 @ 1'										G 1										12/13/22										X X X									
13 SH2 @ 0'										G 1										12/13/22										X X X									
14 SH2 @ 1'										G 1										12/13/22										X X X									
15 EH1 @ 0'										G 1										12/13/22										X X X									
16 EH1 @ 1'										G 1										12/13/22										X X X									
17 EH2 @ 0'										G 1										12/13/22										X X X									
18 EH2 @ 1'										G 1										12/13/22										X X X									
19 EH3 @ 0'										G 1										12/13/22										X X X									
20 EH3 @ 1'										G 1										12/13/22										X X X									
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Relinquished By: [Signature]										Date: 12-14-22																													
Time: 1450																																							
Received By: [Signature]										Date: 12-14-22																													
Time: 1450																																							
Delivered By: (Circle One)										Sample Condition										CHECKED BY: (initials)																			
Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										72																			
Sampler - UPS - Bus - Other: -5.8c/-6.4c																																							
FORM-006																																							
Revision 1.0																																							
† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476																																							
REMARKS:																																							
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No										Add'l Phone #:																													
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No										Add'l Fax #:																													
Please email results and copy of CoC to pm@ettechenv.com.																																							



ORDINAL LABORATORIES

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

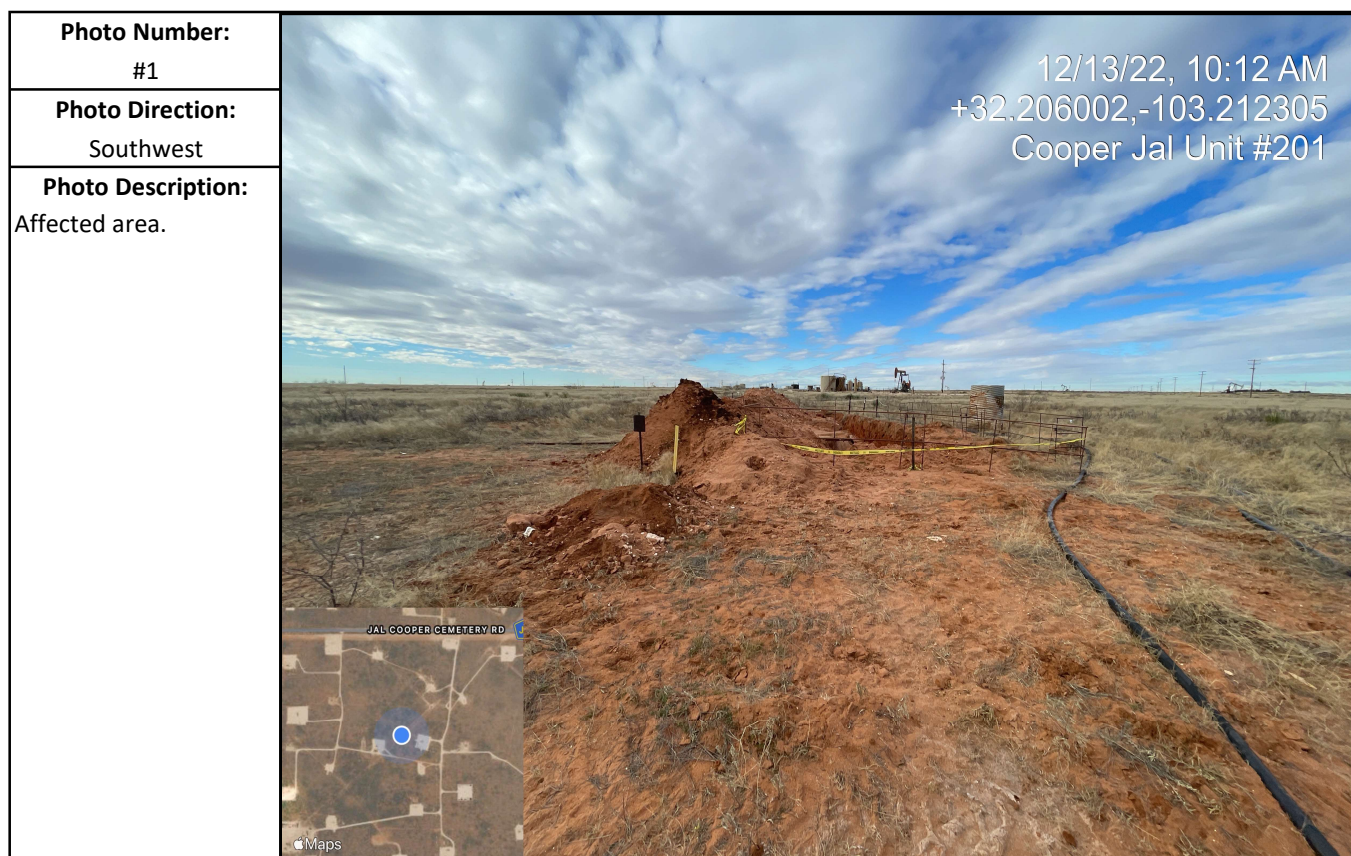
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

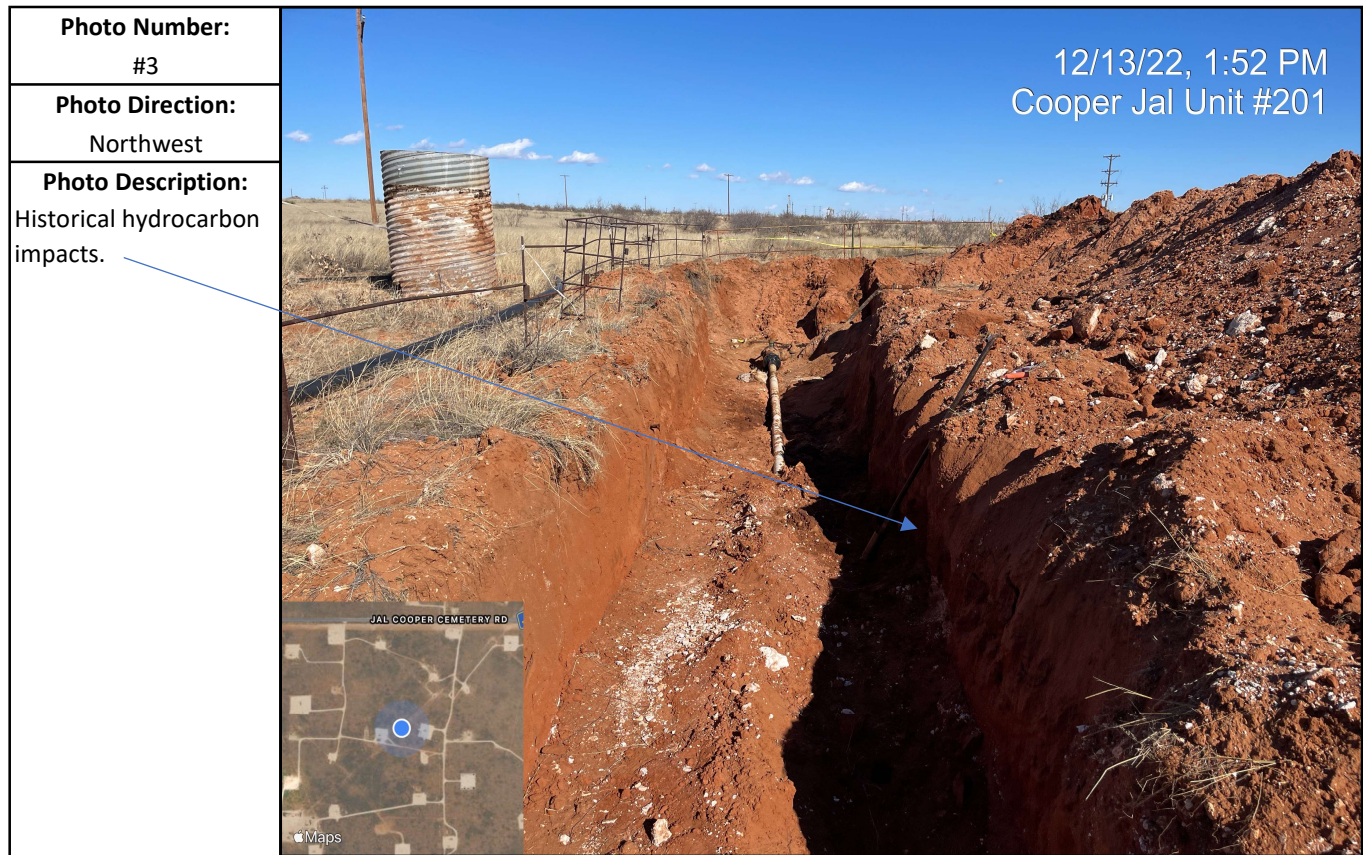
Appendix D

Photographic Log

Photographic Log



Photographic Log



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 182004

CONDITIONS

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 182004
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than five hundred (500) square feet. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release.	2/20/2023