

Incident ID	nAPP2305337359
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Katherine Purvis Title: EHS Coordinator

Signature: Katherine Purvis Date: 05/05/2023

email: katherine.purvis@spurenergy.com Telephone: (575) 441-8619

OCD Only

Received by: Jocelyn Harimon Date: 05/08/2023

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

Closure Approved by: Robert Hamlet Date: 9/18/2023

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

Incident ID	nAPP2305337359
District RP	
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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>78.55</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 type="checkbox"/> Yes <input checked="" 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	nAPP2305337359
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Printed Name: Katherine Purvis Title: EHS Coordinator

Signature: Katherine Purvis Date: 05/05/2023

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

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

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

Printed Name: Katherine Purvis Title: EHS Coordinator

Signature: Katherine Purvis Date: 05/05/2023

email: katherine.purvis@spurenergy.com Telephone: (575) 441-8619

OCD Only

Received by: Jocelyn Harimon Date: 05/08/2023

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Remediation Summary and Soil Closure Request

Spur Energy Partners, LLC Mayaro 22 St. 1

Eddy County, New Mexico
Unit Letter O, Section 22, Township 17 South, Range 28 East
Latitude 32.8142 North, Longitude 104.1604 West
NMOCD Reference No. nAPP2305337359

Prepared By:

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



Zach Conder



Matt Grieco



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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- 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 Spur Energy Partners, LLC, has prepared this *Remediation Summary and Soil Closure Request* for the release site known as the Mayaro 22 St. 1 (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.8142 Longitude: -104.1604

Provided GPS are in WGS84 format.

Site Name:	Mayaro 22 St. 1	Site Type:	Well Head
Date Release Discovered:	2/21/2023	API # (if applicable):	30-015-38321

Unit Letter	Section	Township	Range	County
O	22	17S	28E	Eddy

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

Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	4 bbls	Volume Recovered (bbls)	3 bbls
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	4 bbls	Volume Recovered (bbls)	3 bbls
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?		<input type="checkbox"/> Yes <input checked="" 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: Corrosion caused a hole to develop in a steel line and released an oil and produced water mix onto the location pad.				

Initial Response

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

Previously submitted portions of the NMOCD Form C-141 are available 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?	78.55 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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Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) 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	Method	Closure Criteria	Reclamation Standard*
78.55 Feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	-	-
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg	10 mg/kg

* The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas.

4.0 REMEDIATION ACTIVITIES SUMMARY

On March 24, 2023, remediation activities commenced at the Site. In accordance with NMOCD regulations, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standards.

Etech collected nine (9) confirmation soil samples (FL 1 @ 4', FL 2 @ 3', FL 3 @ 3', FL 4 @ 3', NW 1, NW 2, EW 1, SW 1 and WW 1). 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 the NMOCD Reclamation Standards in all of the submitted soil samples.

A site and sample location map is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data and soil profile logs are provided as Appendix B. Laboratory analytical reports are provided as Appendix C.

The approximate final dimensions of the excavated area ranged from 50 to 58 feet in length, ranged from 20 to 38 feet in width, and three (3) to four (4) feet in depth. During the course of remediation activities, approximately 180 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

5.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable.

6.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Spur Energy Partners, LLC, provide copies of this *Remediation Summary and Soil Closure Request* to the appropriate agencies and request closure be granted to the Mayaro 22 St. 1 site.

7.0 LIMITATIONS

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

This report has been prepared for the benefit of Spur Energy Partners, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Spur Energy Partners, LLC.

8.0 DISTRIBUTION

Spur Energy Partners, LLC

9655 Katy Freeway

Suite 500

Houston, TX 77024

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

811 S. First Street

Artesia, NM 88210

Hobbs Field Office

New Mexico State Land Office

2827 North Dal Paso Street

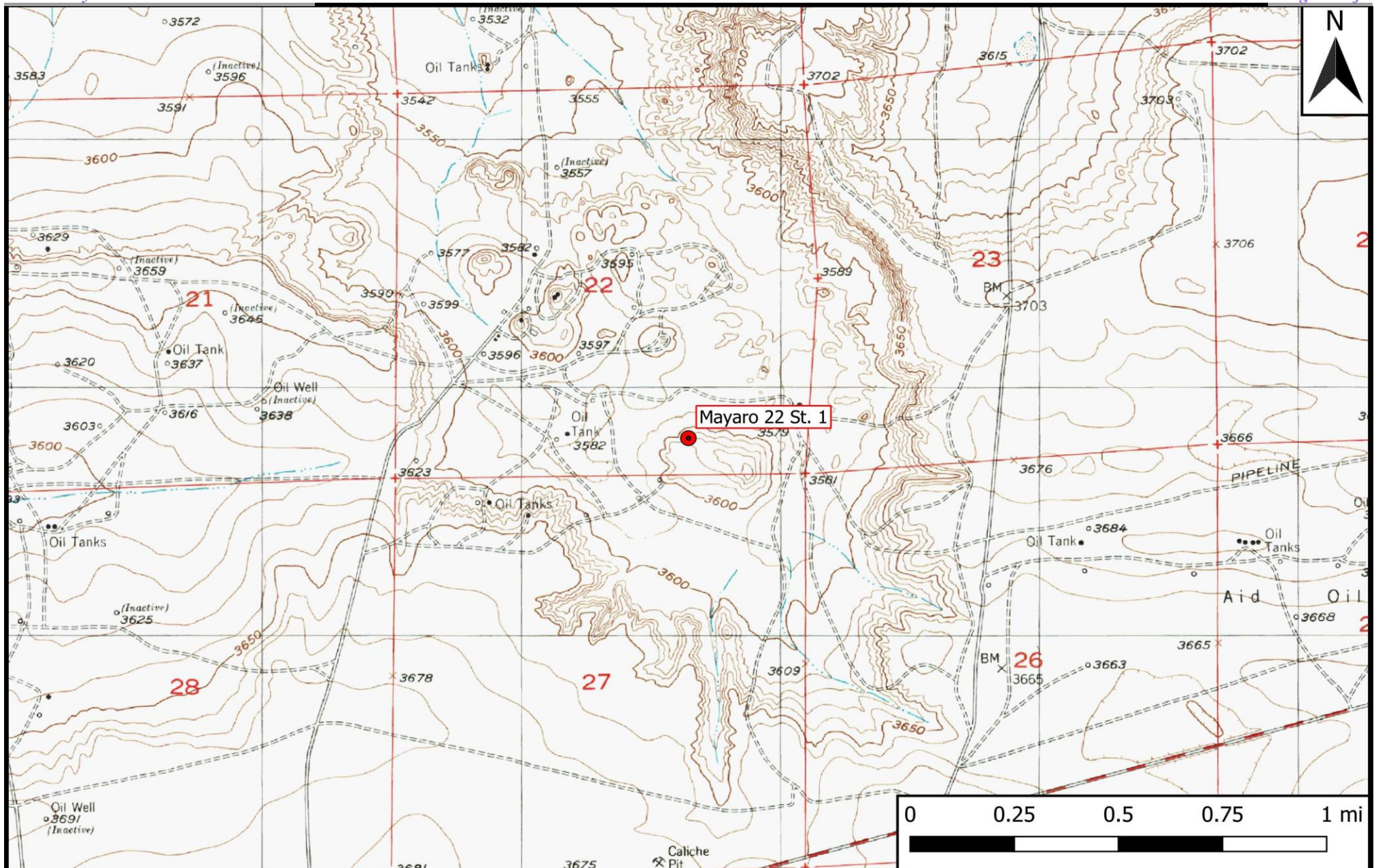
Suite 117

Hobbs, NM 88240

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1

Topographic Map
 Spur Energy Partners, LLC
 Mayaro 22 St. 1
 GPS: 32.8142, -104.1604
 Eddy County

ETECH
 Environmental & Safety Solutions, Inc.

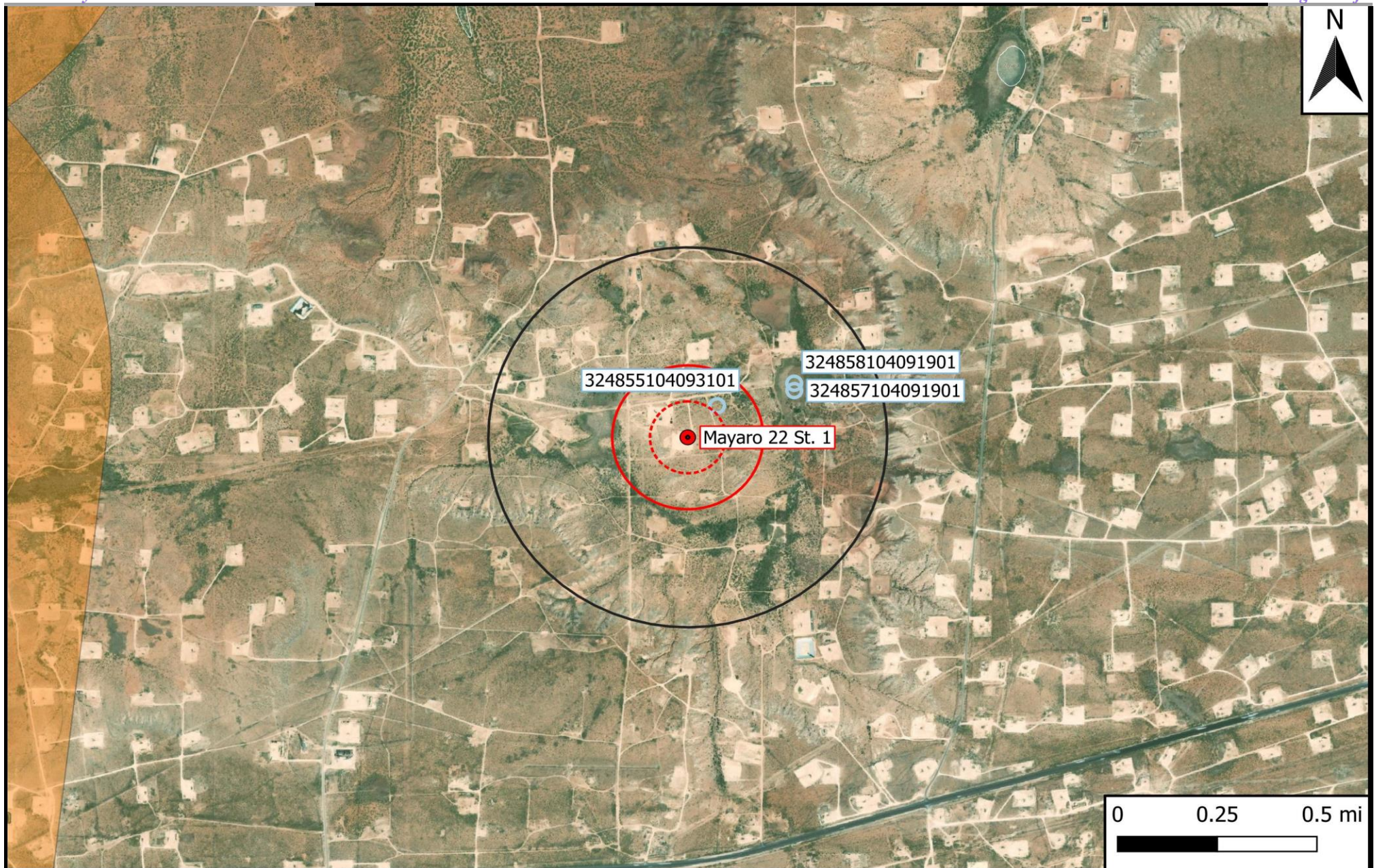
Drafted: mag

Checked: jwl

Date: 2/22/23

Figure 2

Aerial Proximity Map



Legend

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

Figure 2

Aerial Proximity Map
 Spur Energy Partners, LLC
 Mayaro 22 St. 1
 GPS: 32.8142, -104.1604
 Eddy County



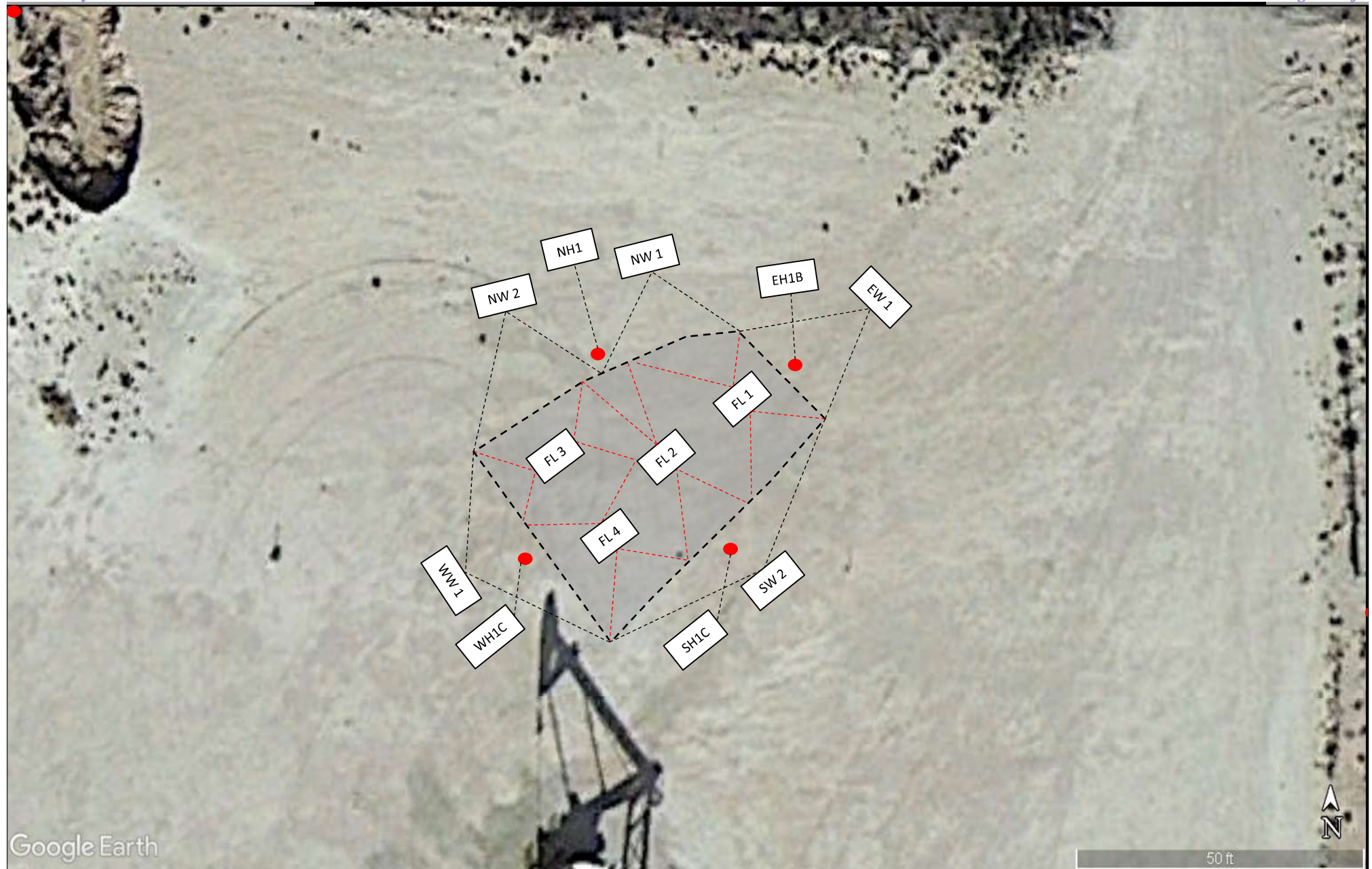
Drafted: mag

Checked: jwl

Date: 2/22/23

Figure 3

Site and Sample Location Map

**Legend:**

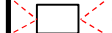


-  Composite Sample Point
-  Excavated Area
-  Horizontal Sample Point

Figure 3

Site and Sample Location Map
 Spur Energy Partners, LLC
 Mayaro 22 St. 1
 GPS: 32.8142, -104.1604
 Eddy County



Drafted: ZPC

Checked: MG

Date: 4/25/23

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

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
Spur Energy Partners, LLC
Mayaro 22 St. 1
NMOCD Ref. #: nAPP2305337359

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
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)
EH1B @ 0'	3/3/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EH1B @ 1'	3/3/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NH1 @ 0'	3/3/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NH1 @ 1'	3/3/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SH1C @ 0'	3/3/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH1C @ 1'	3/3/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WH1C @ 0'	3/3/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WH1C @ 1'	3/3/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
V1 @ 0'	3/3/2023	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	14,800
V1 @ 2'	3/3/2023	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
V2 @ 0'	3/3/2023	0	Excavated	<0.050	<0.300	<10.0	46.5	46.5	11.5	58.0	13,200
V2 @ 3'	3/3/2023	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
V3 @ 0'	3/3/2023	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	13,300
V3 @ 2'	3/3/2023	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 1 @ 4'	3/24/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 2 @ 3'	3/24/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 3 @ 3'	3/24/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 4 @ 3'	3/24/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
EW 1	3/24/2023	0-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW 1	3/24/2023	0-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 2	3/24/2023	0-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW 2	3/24/2023	0-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 1	3/24/2023	0-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

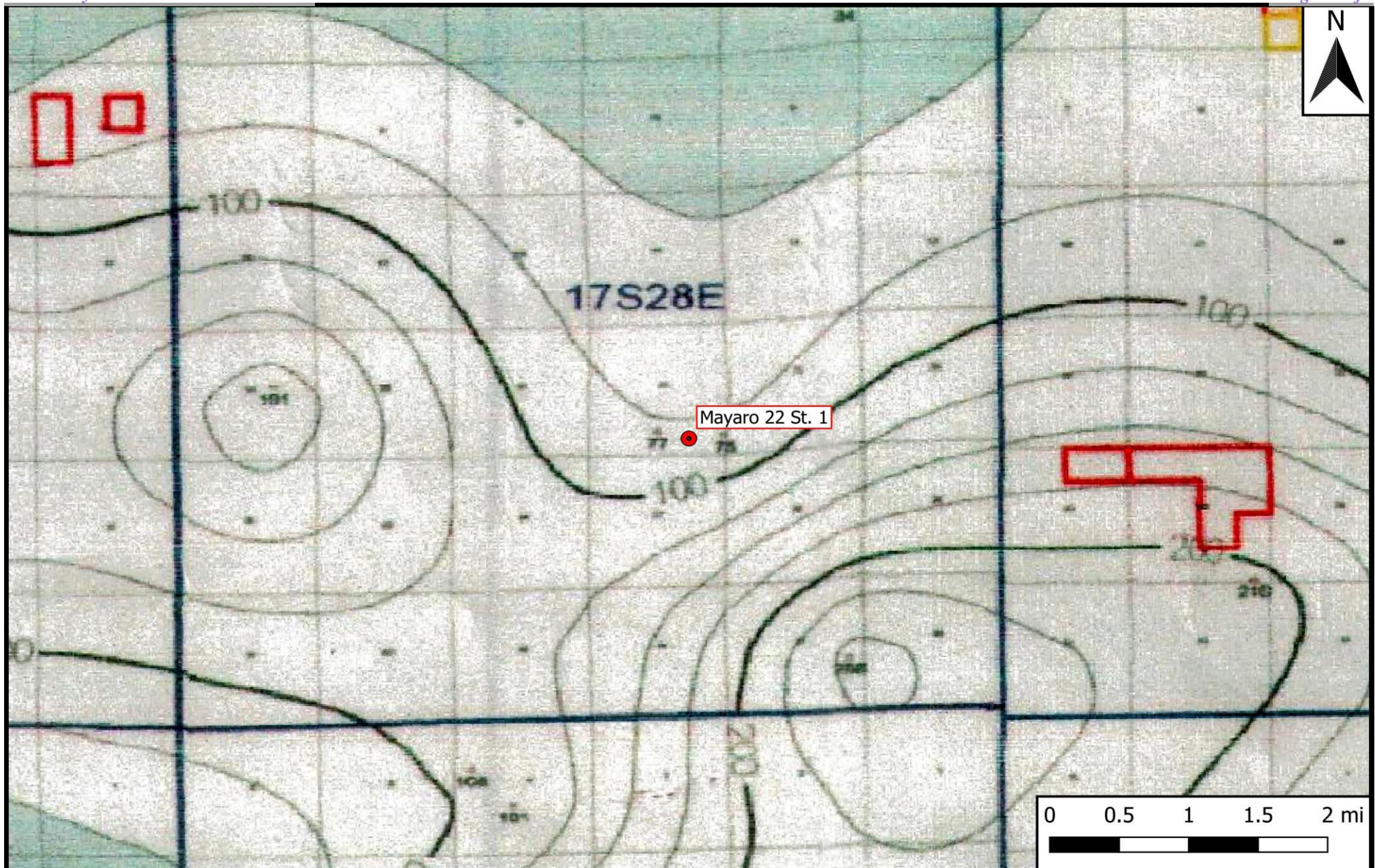
Dash (-): Sample not analyzed for that constituent.

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
Spur Energy Partners, LLC
Mayaro 22 St. 1
GPS: 32.8142, -104.1604
Eddy County



Drafted: mag

Checked: jwl

Date: 2/22/23



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

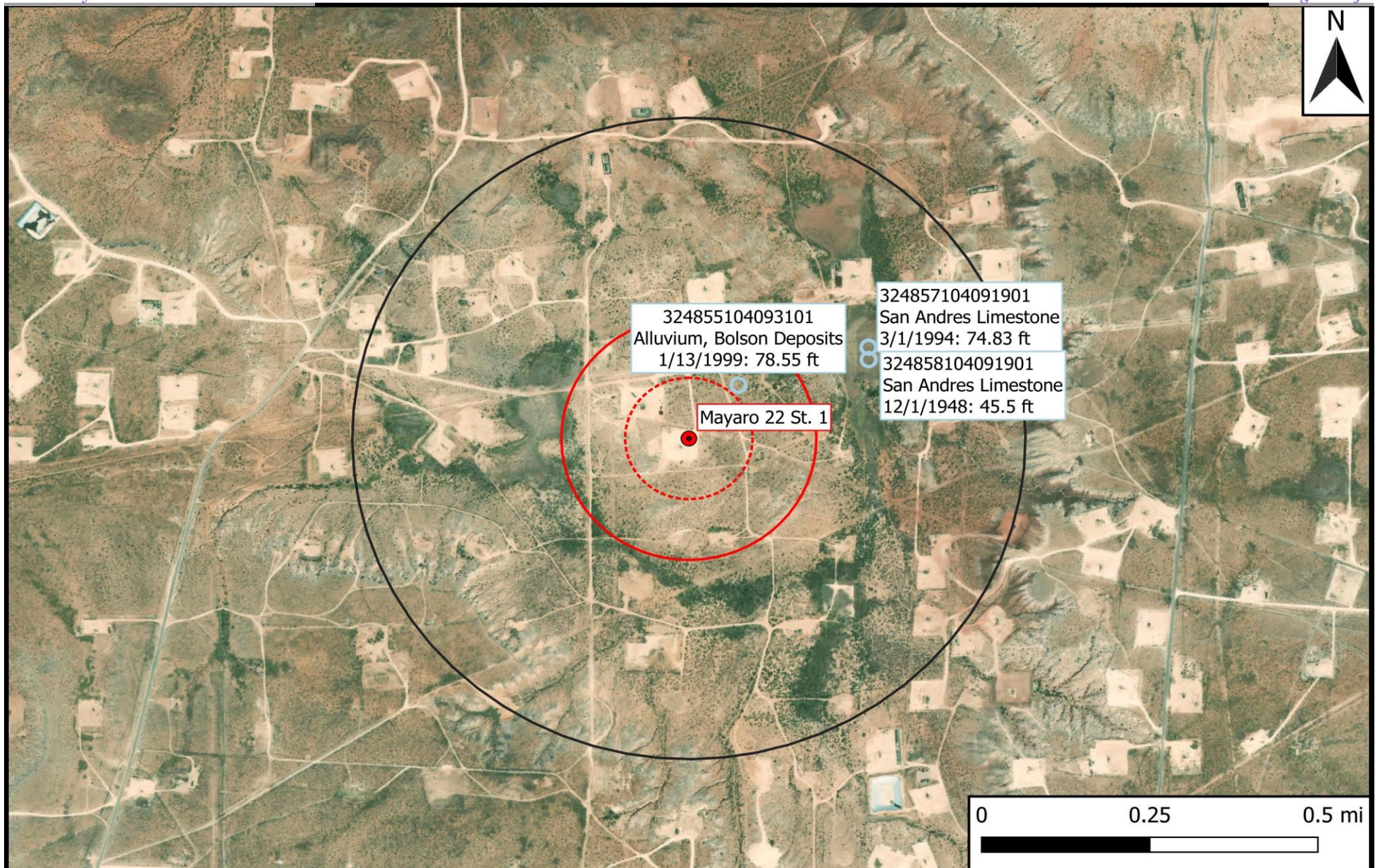
UTMNAD83 Radius Search (in meters):

Easting (X): 578597 **Northing (Y):** 3631001.53 **Radius:** 804.67

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.

2/22/23 11:28 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



Legend

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

Figure 5

USGS Well Proximity Map
 Spur Energy Partners, LLC
 Mayaro 22 St. 1
 GPS: 32.8142, -104.1604
 Eddy County



Drafted: mag

Checked: jwl

Date: 2/22/23



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 324855104093101

Minimum number of levels = 1

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

USGS 324855104093101 17S.28E.22.34242

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°48'55", Longitude 104°09'31" NAD27

Land-surface elevation 3,578 feet above NGVD29

The depth of the well is 95.00 feet below land surface.

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

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

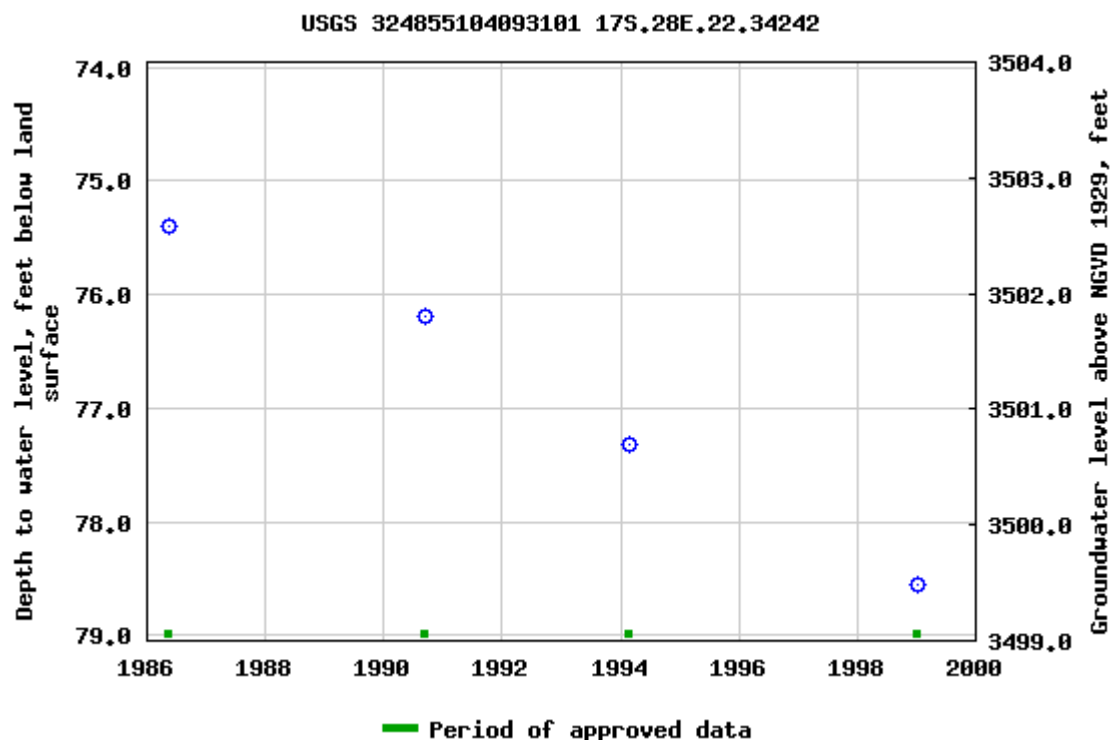
Output formats

[Table of data](#)

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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: 2023-02-22 13:24:17 EST

0.58 0.49 nadww01



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Agency code = usgs

site_no list =

- 324857104091901

Minimum number of levels = 1

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USGS 324857104091901 17S.28E.22.44244

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060007

Latitude 32°48'57", Longitude 104°09'19" NAD27

Land-surface elevation 3,582 feet above NAVD88

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

This well is completed in the San Andres Limestone (313SADR) local aquifer.

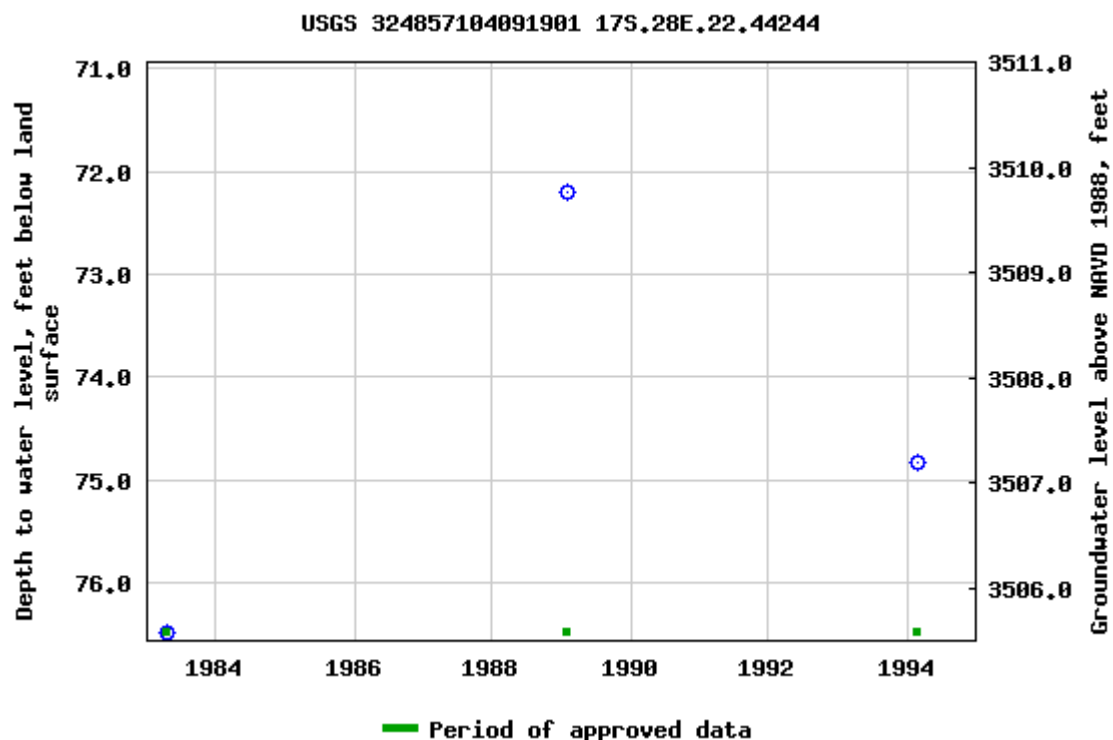
Output formats

[Table of data](#)

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Title: Groundwater for USA: Water Levels

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

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0.53 0.48 nadww01





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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 324858104091901

Minimum number of levels = 1

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USGS 324858104091901 17S.28E.22.442442

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060007

Latitude 32°48'58", Longitude 104°09'19" NAD27

Land-surface elevation 3,582 feet above NAVD88

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

This well is completed in the San Andres Limestone (313SADR) local aquifer.

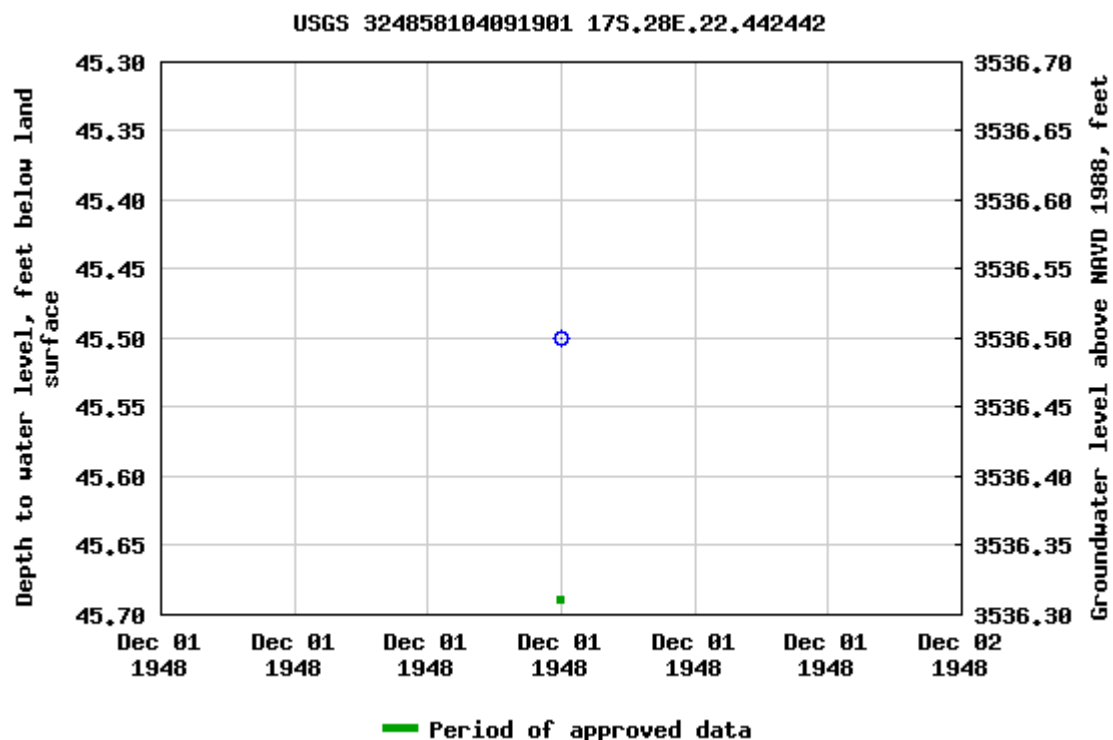
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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2023-02-22 13:24:18 EST

0.55 0.49 nadww01

Appendix B

Field Data and Soil Profile Logs

Sample Log

Date: _____

Project: Mayaro 22 St. 1

Project Number: 17670 Latitude: 32.8142 Longitude: -104.1604

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date:

3/3/23

Project: Mayaro 22 St. 1

Project Number:

17670

Latitude:

32.8142

Longitude:

-104.1604

Sample ID	PID/Odor	Chloride Conc.		GPS
NH1 e 0'	—	3.0	368	✓
NH1 e 1'	—	3.0	368	✓
EH1 e 0'	—	4.6	780	
EH1 e 1'	—	3.6	500	
SH1 e 0'	—	7.8	2444	
SH1 e 1'	—	8.4	72444	
WH1 e 0'	—	4.4	716	
WH1 e 1'	—	3.8	552	
VI e 0'	Yes	10.0	72444 8.0 12952	✓
VI e 1'	Slight	5.8	1220	
VI e 2'	?	3.6	500	✓
VI e 3'	—	2.6	292	
VI e 4'	?	7.4	2116	
VI e 5'	—	6.2	1400	
EHB e 0'	—	3.6	500	✓
EHB e 1'	—	2.2	228	✓
SHIB e 0'	—	8.2	72444	
SHIB e 1'	—	8.0	72444	
WHIB e 0'	—	4.4	716	
WHIB e 1'	—	3.8	552	
V2 e 0'	Yes	10.0	72444 7.4 8672	✓
V2 e 1'	Yes	9.4	72444 6.0 5904	
V2 e 2'	Slight	7.8	2444	
V2 e 3'	—	3.2	408	
V2 e 4'	—	4.0	604	None Sample
V2 e 5'	?	4.4	716	
V3 e 0'	None Yes	10.0	72444 7.6 10984	✓
V3 e 1'	—	4.0	604	
V3 e 2'	—	3.6	500	✓
V3 e 3'	—	3.4	452	
V3 e 4'	—	3.2	408	
V3 e 5'	—	4.0	604	
SHIC e 0'	—	2.2	228	✓
SHIC e 1'	—	3.0	368	✓
WHIC e 0'	—	3.4	452	✓
WHIC e 1'	—	3.8	552	✓

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas

Initial Release Assessment Form

Project: Mayaro 22 St. 1

Project Number: 17670

Clean Up Level:

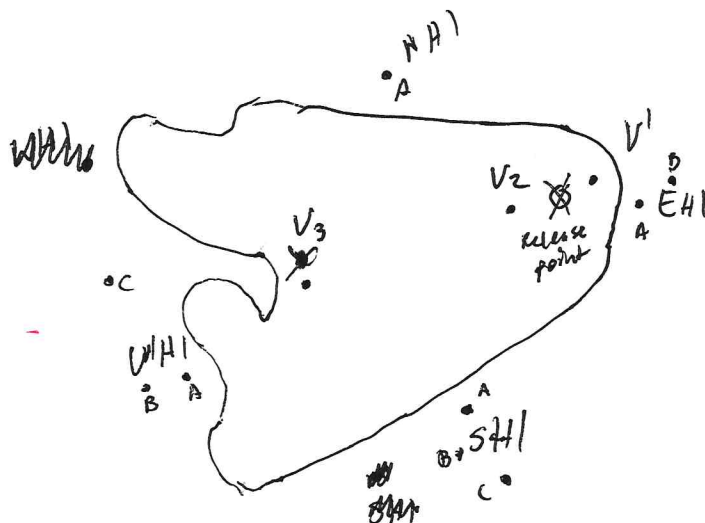
Latitude: 32.8142

Date: 3/3/23

600 mg/kg Cl-, 100 mg/kg TPH

Longitude: -104.1604

Site Diagram



Notes:

~Length:

~Width:

~Area:

~Depth:

Yes

No

3-4 Representative Pictures of the Affected Area including sample locations?



Necessary Samples Field Screened and on Ice?



Sample and Field Screen Data Entered on Sample Log?



Was horizontal and vertical delineation achieved?





Soil Profile

Date: 3/24/23

Project: Mayaro 22 St. 1

Project Number: 17670 Latitude: 32.8142 Longitude: -104.1604

Depth (ft. bgs)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
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38
39
40

Caliche / Pad Material

Description

Red Sand

|

Appendix C

Laboratory Analytical Reports



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

March 27, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MAYARO 22 ST. 1

Enclosed are the results of analyses for samples received by the laboratory on 03/24/23 15:06.

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: 03/24/2023
 Reported: 03/27/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 1 @ 4' (H231365-01)

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	03/24/2023	ND	2.07	103	2.00	5.01		
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39		
Total BTEx	<0.300	0.300	03/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/24/2023
 Reported: 03/27/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 2 @ 3' (H231365-02)

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	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEX	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

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Analytical Results For:

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

Received: 03/24/2023
 Reported: 03/27/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 3 @ 3' (H231365-03)

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	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEx	<0.300	0.300	03/24/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Analytical Results For:

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

Received: 03/24/2023
 Reported: 03/27/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 4 @ 3' (H231365-04)

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	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEx	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Analytical Results For:

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

Received: 03/24/2023
 Reported: 03/27/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 1 (H231365-05)

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	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEx	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/24/2023
 Reported: 03/27/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 2 (H231365-06)

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	03/24/2023	ND	2.07	103	2.00	5.01		
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39		
Total BTEx	<0.300	0.300	03/24/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/24/2023
 Reported: 03/27/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 1 (H231365-07)

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	03/24/2023	ND	2.07	103	2.00	5.01		
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39		
Total BTEx	<0.300	0.300	03/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Analytical Results For:

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

Received: 03/24/2023
 Reported: 03/27/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 1 (H231365-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2023	ND	2.07	103	2.00	5.01		
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39		
Total BTX	<0.300	0.300	03/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/27/2023	ND	448	112	400	7.41		

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	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/24/2023
 Reported: 03/27/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 2 (H231365-09)

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	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEX	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/27/2023	ND	448	112	400	7.41		

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	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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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



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

March 09, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MAYARO 22 ST. 1

Enclosed are the results of analyses for samples received by the laboratory on 03/06/23 9:17.

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 "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NH1 @ 0' (H231002-01)

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	03/08/2023	ND	2.08	104	2.00	2.63	
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35	
Total BTX	<0.300	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/08/2023	ND	464	116	400	3.51		

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	03/06/2023	ND	188	94.2	200	8.17	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	190	95.2	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NH1 @ 1' (H231002-02)

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	03/08/2023	ND	2.08	104	2.00	2.63	
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35	
Total BTX	<0.300	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/08/2023	ND	464	116	400	3.51		

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	03/06/2023	ND	188	94.2	200	8.17	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	190	95.2	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH1B @ 0' (H231002-03)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2023	ND	2.08	104	2.00	2.63	
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35	
Total BTX	<0.300	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/08/2023	ND	464	116	400	3.51		

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	03/06/2023	ND	188	94.2	200	8.17	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	190	95.2	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH1B @ 1' (H231002-04)

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	03/08/2023	ND	2.08	104	2.00	2.63	
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35	
Total BTEX	<0.300	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/08/2023	ND	464	116	400	3.51		

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	03/06/2023	ND	188	94.2	200	8.17	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	190	95.2	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SH1C @ 0' (H231002-05)

BTX 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2023	ND	2.08	104	2.00	2.63		
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17		
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35		
Total BTX	<0.300	0.300	03/08/2023	ND						

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

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/08/2023	ND	416	104	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	188	94.2	200	8.17		
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	190	95.2	200	9.61		
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND						

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SH1C @ 1' (H231002-06)

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	03/08/2023	ND	2.08	104	2.00	2.63	
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35	
Total BTEx	<0.300	0.300	03/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/08/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	188	94.2	200	8.17	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	190	95.2	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WH1C @ 0' (H231002-07)

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	03/08/2023	ND	2.08	104	2.00	2.63	
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35	
Total BTEX	<0.300	0.300	03/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/08/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	188	94.2	200	8.17	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	190	95.2	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WH1C @ 1' (H231002-08)

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	03/08/2023	ND	2.08	104	2.00	2.63		
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17		
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35		
Total BTEX	<0.300	0.300	03/08/2023	ND						

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

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/08/2023	ND	416	104	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	188	94.2	200	8.17		
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	190	95.2	200	9.61		
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND						

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V1 @ 0' (H231002-09)

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	03/08/2023	ND	2.08	104	2.00	2.63	
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35	
Total BTEx	<0.300	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	03/08/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	188	94.2	200	8.17	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	190	95.2	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V1 @ 2' (H231002-10)

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	03/08/2023	ND	2.08	104	2.00	2.63	
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35	
Total BTEx	<0.300	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	03/08/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	188	94.2	200	8.17	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	190	95.2	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V2 @ 0' (H231002-11)

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	03/08/2023	ND	2.08	104	2.00	2.63	
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35	
Total BTEx	<0.300	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13200	16.0	03/08/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2023	ND	188	94.2	200	8.17	
DRO >C10-C28*	46.5	10.0	03/07/2023	ND	190	95.2	200	9.61	
EXT DRO >C28-C36	11.5	10.0	03/07/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V2 @ 3' (H231002-12)

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	03/08/2023	ND	2.08	104	2.00	2.63	
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35	
Total BTX	<0.300	0.300	03/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/08/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2023	ND	188	94.2	200	8.17	
DRO >C10-C28*	<10.0	10.0	03/07/2023	ND	190	95.2	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	03/07/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V3 @ 0' (H231002-13)

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	03/08/2023	ND	2.08	104	2.00	2.63	
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35	
Total BTEX	<0.300	0.300	03/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13300	16.0	03/08/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2023	ND	188	94.2	200	8.17	
DRO >C10-C28*	<10.0	10.0	03/07/2023	ND	190	95.2	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	03/07/2023	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/06/2023
 Reported: 03/09/2023
 Project Name: MAYARO 22 ST. 1
 Project Number: 17670
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 03/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V3 @ 2' (H231002-14)

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	03/08/2023	ND	2.08	104	2.00	2.63	
Toluene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.60	110	6.00	3.35	
Total BTX	<0.300	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/08/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2023	ND	188	94.2	200	8.17	
DRO >C10-C28*	<10.0	10.0	03/07/2023	ND	190	95.2	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	03/07/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Lance Crenshaw

Address: 2617 W Marland

City: Hobbs

Phone #: (575) 264-9884

Project #: 17670

Project Name: Mayaro 22 St. 1

Project Location: Rural Eddy County, NM

Sampler Name: Matthew Grieco and Quentin Reyna

P.O. #:

Company: Spur Energy Partners

Attn: Kathy Purvis

Address:

City:

State: NM Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H331002

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chloride

TPH (8015M)

BTEX (8021B)

1	NH1 @ 0'	G	1	X	3/3/23	X	X	X											
2	NH1 @ 1'	G	1	X	3/3/23	X	X	X											
3	EH1B @ 0'	G	1	X	3/3/23	X	X	X											
4	EH1B @ 1'	G	1	X	3/3/23	X	X	X											
5	SH1C @ 0'	G	1	X	3/3/23	X	X	X											
6	SH1C @ 1'	G	1	X	3/3/23	X	X	X											
7	WH1C @ 0'	G	1	X	3/3/23	X	X	X											
8	WH1C @ 1'	G	1	X	3/3/23	X	X	X											
9	V1 @ 0'	G	1	X	3/3/23	X	X	X											
10	V1 @ 2'	G	1	X	3/3/23	X	X	X											

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Relinquished By:

Date: 3-6-23

Received By:

Phone Result:

Fax Result:

REMARKS:

Relinquished By:

Date:

Received By:

Please email results and copy of CoC to pm@etechenv.com.

Delivered By: (Circle One)

Sample Condition:

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

-8.6c/-9.2c

Yes Yes

Yes



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

BILL TO

ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Lance Crenshaw

Address: 2617 W Marland

City: Hobbs State: NM Zip: 88240

Phone #: (575) 264-9884 Fax #:

Project #: 17670 Project Owner: Spur Energy Partners

Project Name: Mayaro 22 St. 1

Project Location: Rural Eddy County, NM

Sampler Name: Matthew Grieco and Quentin Reyna

P.O. #:

Company: Spur Energy Partners

Attn: Kathy Purvis

Address:

City:

State: NM Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H231002

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chloride

TPH (8015M)

BTEX (8021B)

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Relinquished By:

Date: 3-6-23

Received By:

Phone Result:

Yes No

Add'l Phone #:

Fax Result:

Yes No

Add'l Fax #:

REMARKS:

Relinquished By:

Date:

Received By:

Please email results and copy of CoC to pm@etechnv.com.

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

- 8.6c / - 9.2c

Sample Condition: Cool Intact

Checked By: (Initials)

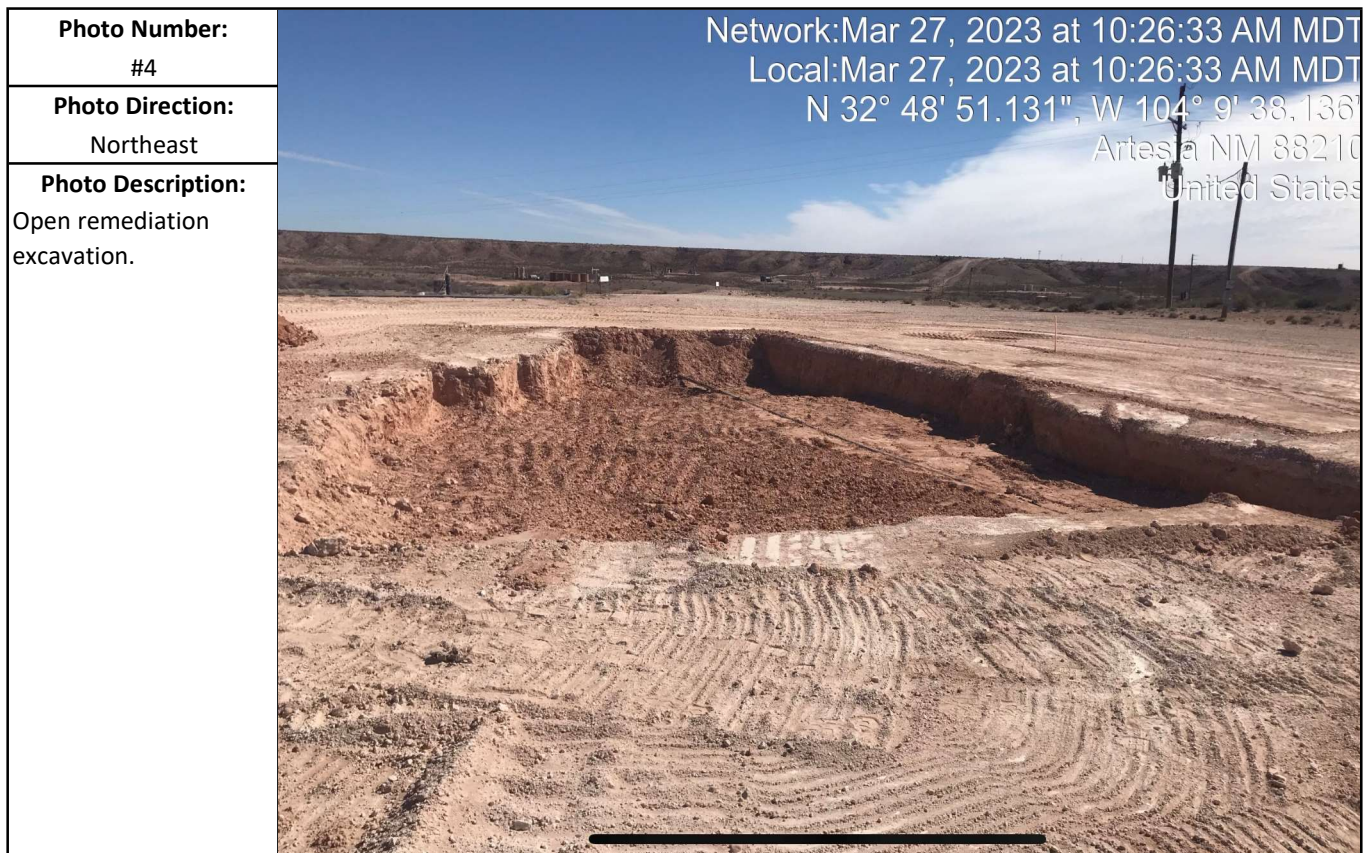
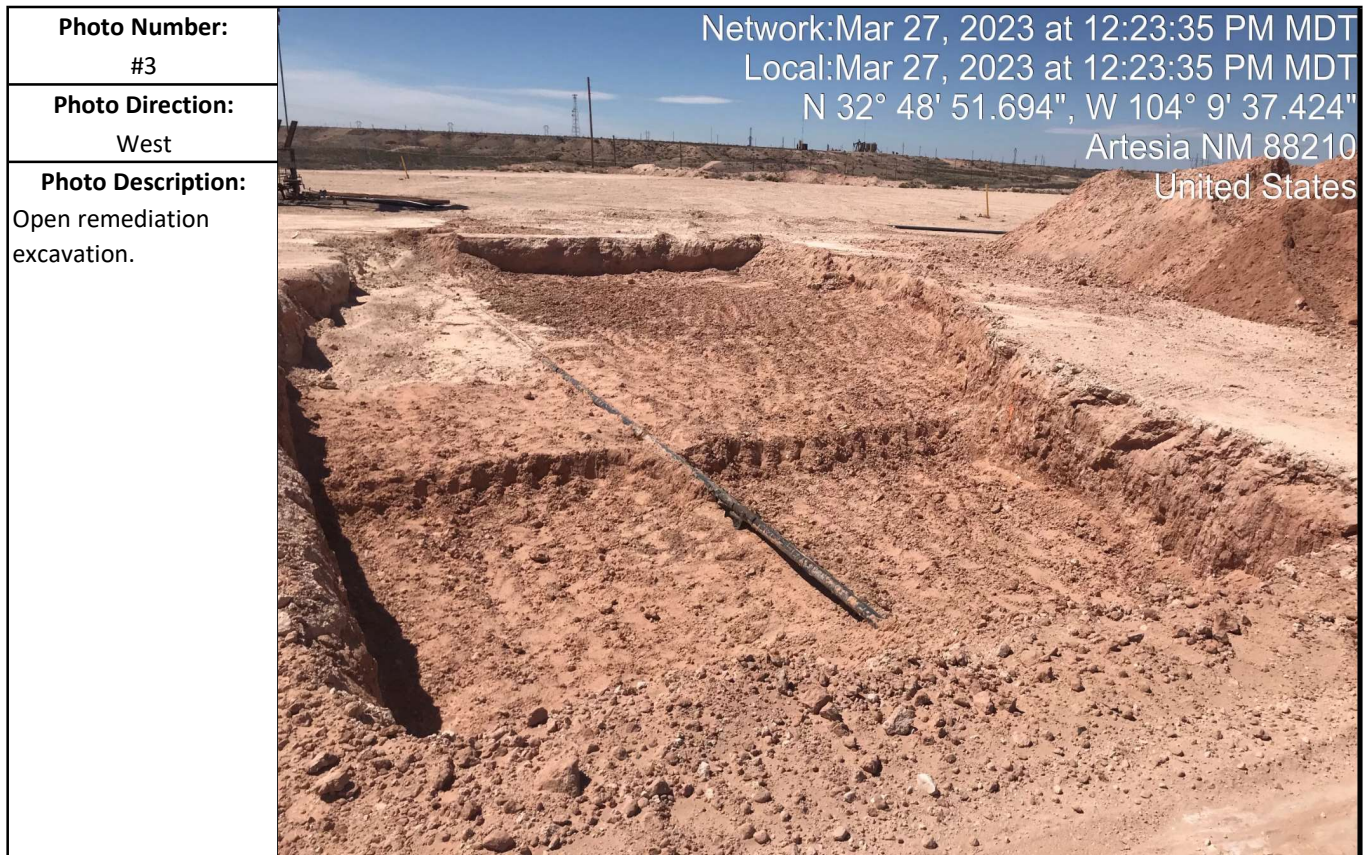
Appendix D

Photographic Log

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 213972

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 213972
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2305337359 MAYARO 22 STATE #001, thank you. This closure is approved.	9/18/2023