

Incident ID	nAPP2227230997
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>181.5</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.

Form C-141

State of New Mexico

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Oil Conservation Division

Incident ID	nAPP2227230997
District RP	
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Application ID	

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: Risa CzarnikowTitle: Production TechSignature: Date: 3-29-23email: rczarnikow@helnsoil.comTelephone: (432) 688-3727**OCD Only**Received by: Jocelyn HarimonDate: 03/30/2023

Form C-141

State of New Mexico
Oil Conservation Division

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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 OCD 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: Risa CzarnikowTitle: Production TechSignature: Date: 3-29-23email: rczarnikow@helsmsoil.comTelephone: (432) 688-3727**OCD Only**Received by: Jocelyn HarimonDate: 03/30/2023

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: 05/08/2023Printed Name: Jennifer NobuiTitle: Environmental Specialist A

Amended Remediation Summary and Soil Closure Request

H.L. Brown Operating, LLC Fed Com 27 002

Roosevelt County, New Mexico
Unit Letter A, Section 5, Township 8 South, Range 37 East
Latitude 33.678874 North, Longitude 103.148393 West
NMOCD Reference No. nAPP2227230997

Prepared By:

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



Zach Conder



Ben J. Arguijo



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of H.L. Brown Operating, LLC, has prepared this *Remediation Summary and Soil Closure Request* for the release site known as the Fed Com 27 002 (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 33.678874 Longitude: -103.148393

Provided GPS are in WGS84 format.

Site Name:	Fed Com 27 002	Site Type:	Well Head
Date Release Discovered:	9/7/2022	API # (if applicable):	30-041-20871

Unit Letter	Section	Township	Range	County
L	27	7S	37E	Roosevelt

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name KIZER MACK LIFE ESTATE)

Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) <u>5</u>	Volume Recovered (bbls) <u>0</u>
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input 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:

Unknown historic release found during site inspection.

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?	181.5 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
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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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 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, and 4.

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*
181.5 Feet	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg	-
	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 October 20, 2022, remediation activities commenced at the Site. In accordance with NMOCD guidelines, impacted soil affected above the NMOCD Closure Criteria 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.

Upon excavating impacted soil affected above the NMOCD Closure Criteria, Etech collected eleven (11) confirmation soil samples (FL 1 @ 2', FL 2 @ 2', FL 3 @ 1', EW 1, EW 2, NW 1, NW 2, SW 1, SW 2, WW 1, and WW 2). The collected soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the NMOCD Closure in each of the submitted soil samples.

On December 12, 2022, Etech returned to the Site and collected five (5) horizontal delineation soil samples (EH 1 @ 1', EH 2 @ 1', NH 1 @ 1', SH 1 @ 1', and WH 1 @ 1') in an effort to further characterize the horizontal extent of the impacted area. The collected soil samples were submitted to the laboratory for analysis of TPH and chloride. Laboratory analytical results indicated TPH and chloride concentrations below the NMOCD Closure Criteria and NMOCD Reclamation Standards in each 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 is provided as Appendix B. Laboratory analytical reports are provided as Appendix C. A photographic log of remediation activities is provided as Appendix D.

The final dimensions of the excavated area adjacent to the well head were 22 feet in width, 27 to 30 feet in length, and two (2) feet in depth. The final dimensions of the excavated area adjacent to the tank battery were nine (9) feet in width, eighteen (18) feet in length, and one (1) foot in depth. During the course of remediation activities, approximately sixty (60) cubic yards of impacted soil was 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. Affected areas were located on the production pad and will be revegetated upon the closure and reclamation of the Site.

6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulations. Impacted soil affected above the NMOCD Closure Criteria 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.

Based on laboratory analytical results and field activities conducted to date, Etech recommends H.L. Brown Operating, LLC, provide copies of this *Remediation Summary and Soil Closure Request* to the appropriate agencies and request closure be granted to the 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 H.L. Brown Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or H.L. Brown Operating, LLC.

8.0 DISTRIBUTION

H.L. Brown Operating, LLC

300 West Louisiana

Midland, TX 79702-2237

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

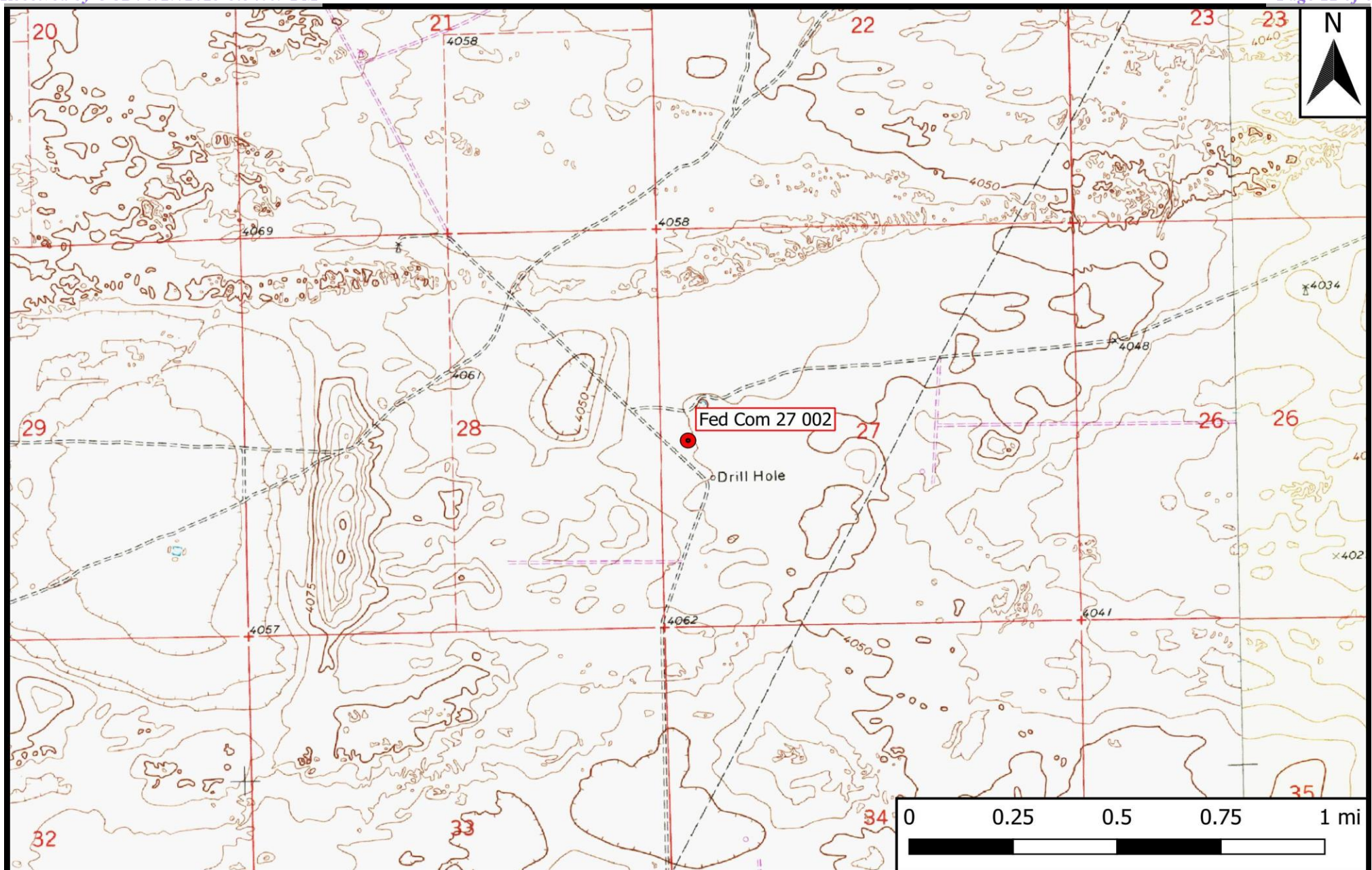
1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1

Topographic Map



Legend

● Site Location

Figure 1

Topographic Map
H. L. Brown Operating LLC
Fed Com 27 002
GPS: 33.678874, -103.148393
Roosevelt County

ETECH
Environmental & Safety Solutions, Inc.

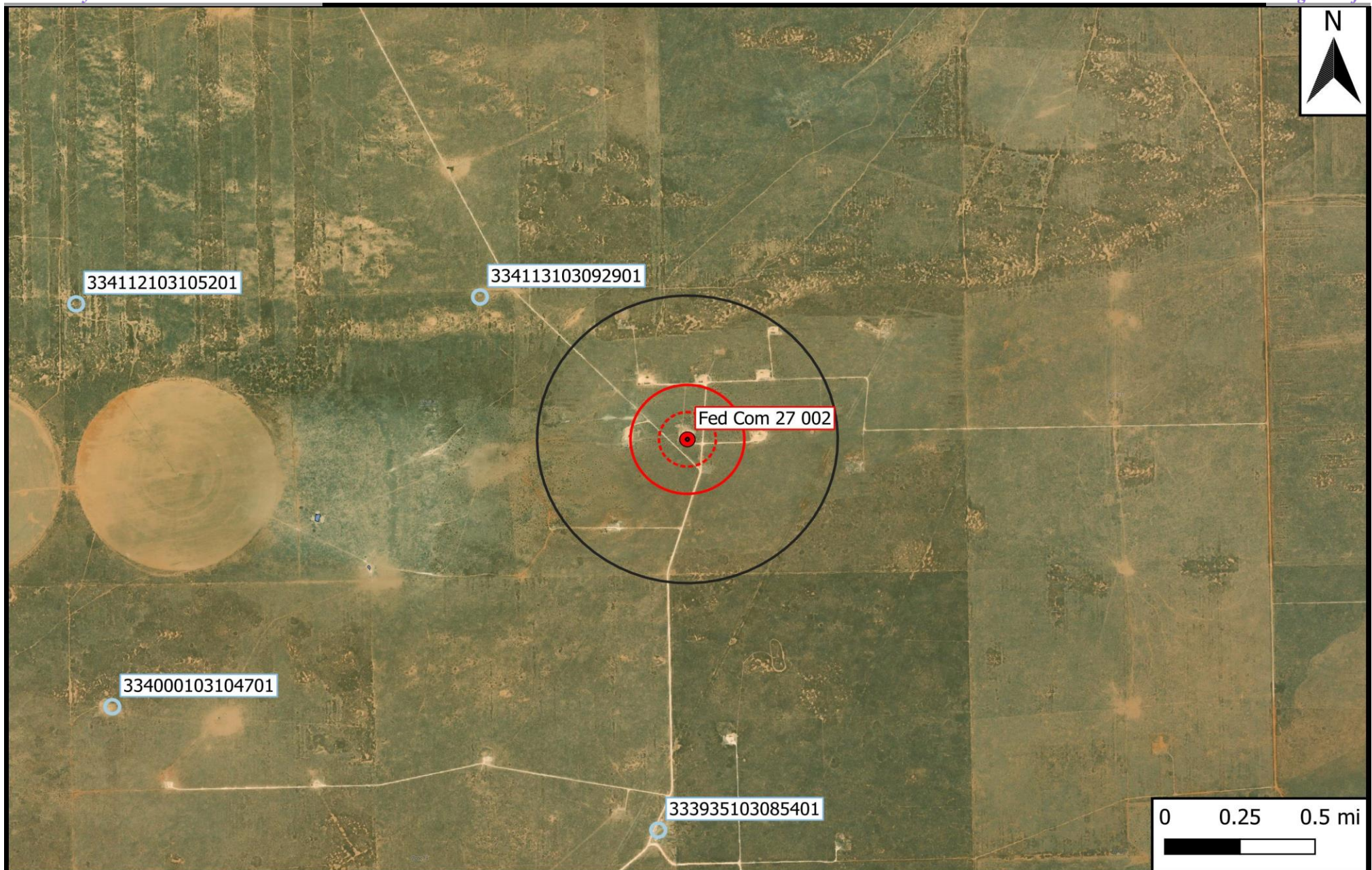
Drafted: mag

Checked: jk

Date: 10/12/22

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
 H. L. Brown Operating LLC
 Fed Com 27 002
 GPS: 33.678874, -103.148393
 Roosevelt County



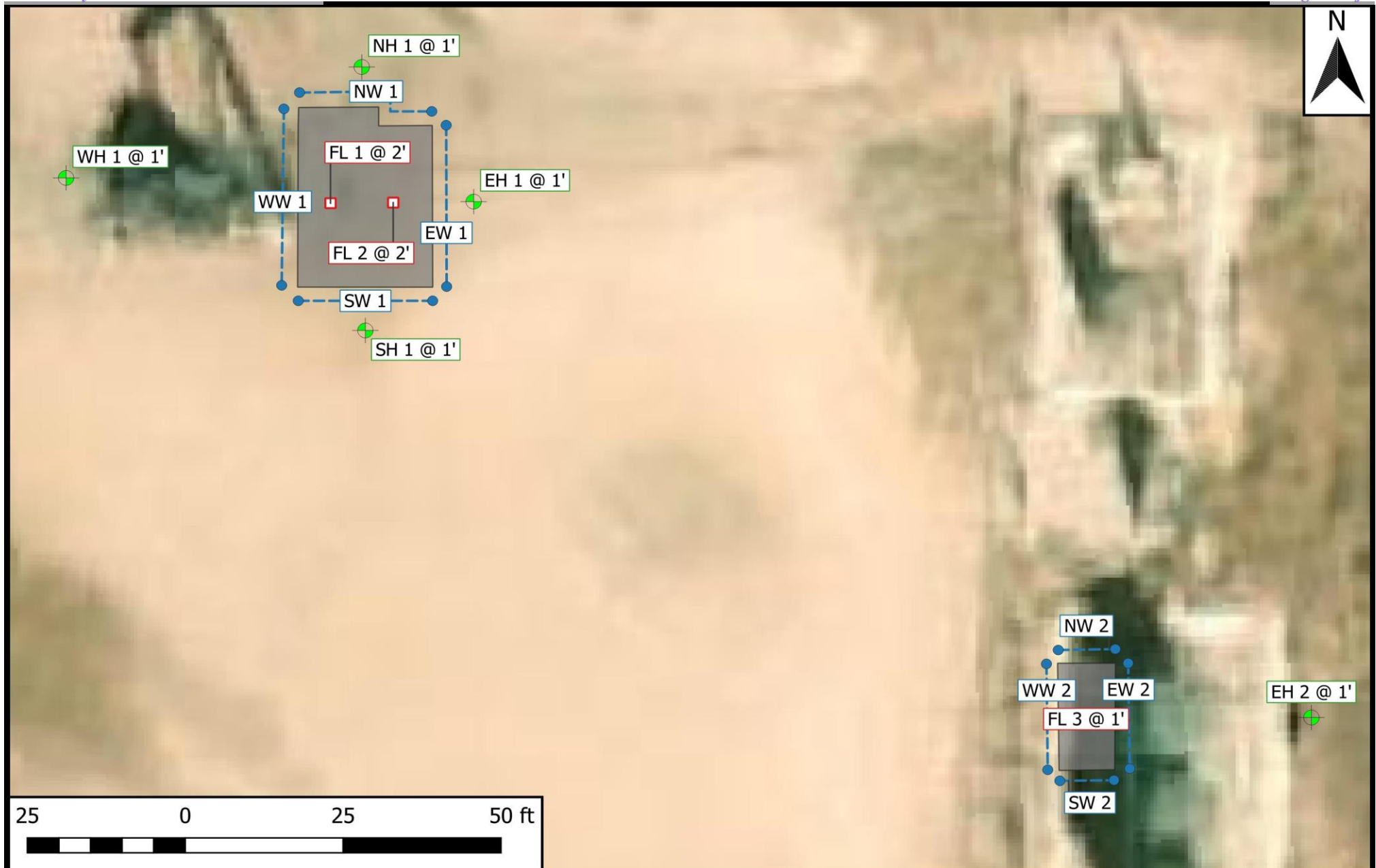
Drafted: mag

Checked: jk

Date: 10/12/22

Figure 3

Site and Sample Location Map



Legend

- Horizontal Delineation Point
- Floor Confirmation Sample
- Wall Confirmation Sample
- Excavated Area

Figure 3

Site and Sample Location Map
 H.L. Brown Operating, LLC
 Fed Com 27 002
 GPS: 33.678874, -103.148393
 Roosevelt County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl

Date: 12/16/22

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

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil H.L. Brown Operating, LLC Fed Com 27 002 NMOCD Ref. #: nAPP2227230997											
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)
Delineation Samples											
EH 1 @ 1'	12/12/2022	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	256
EH 2 @ 1'	12/12/2022	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NH 1 @ 1'	12/12/2022	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	176
SH 1 @ 1'	12/12/2022	1	In-Situ	-	-	<10.0	13.9	13.9	<10.0	13.9	480
WH 1 @ 1'	12/12/2022	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	496
Confirmation Samples											
FL 1 @ 2'	10/20/2022	2	In-Situ	<0.025	<0.150	<10.0	14.2	14.2	<10.0	14.2	3,920
FL 2 @ 2'	10/20/2022	2	In-Situ	<0.025	<0.150	<10.0	13.7	13.7	<10.0	13.7	3,440
FL 3 @ 1'	10/20/2022	1	In-Situ	<0.025	<0.150	<10.0	10.4	10.4	<10.0	10.4	176
EW 1	10/20/2022	0-2	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	6,240
EW 2	10/20/2022	0-1	In-Situ	<0.025	5.31	130	647	777	47.9	825	32.0
NW 1	10/20/2022	0-2	In-Situ	<0.025	<0.150	<10.0	70.1	70.1	18.2	88.3	6,960
NW 2	10/20/2022	0-1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 1	10/20/2022	0-2	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	2,670
SW 2	10/20/2022	0-1	In-Situ	<0.025	<0.150	<10.0	12.5	12.5	<10.0	12.5	224
WW 1	10/20/2022	0-2	In-Situ	<0.025	<0.150	<10.0	266	266	61.5	328	2,880
WW 2	10/20/2022	0-1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

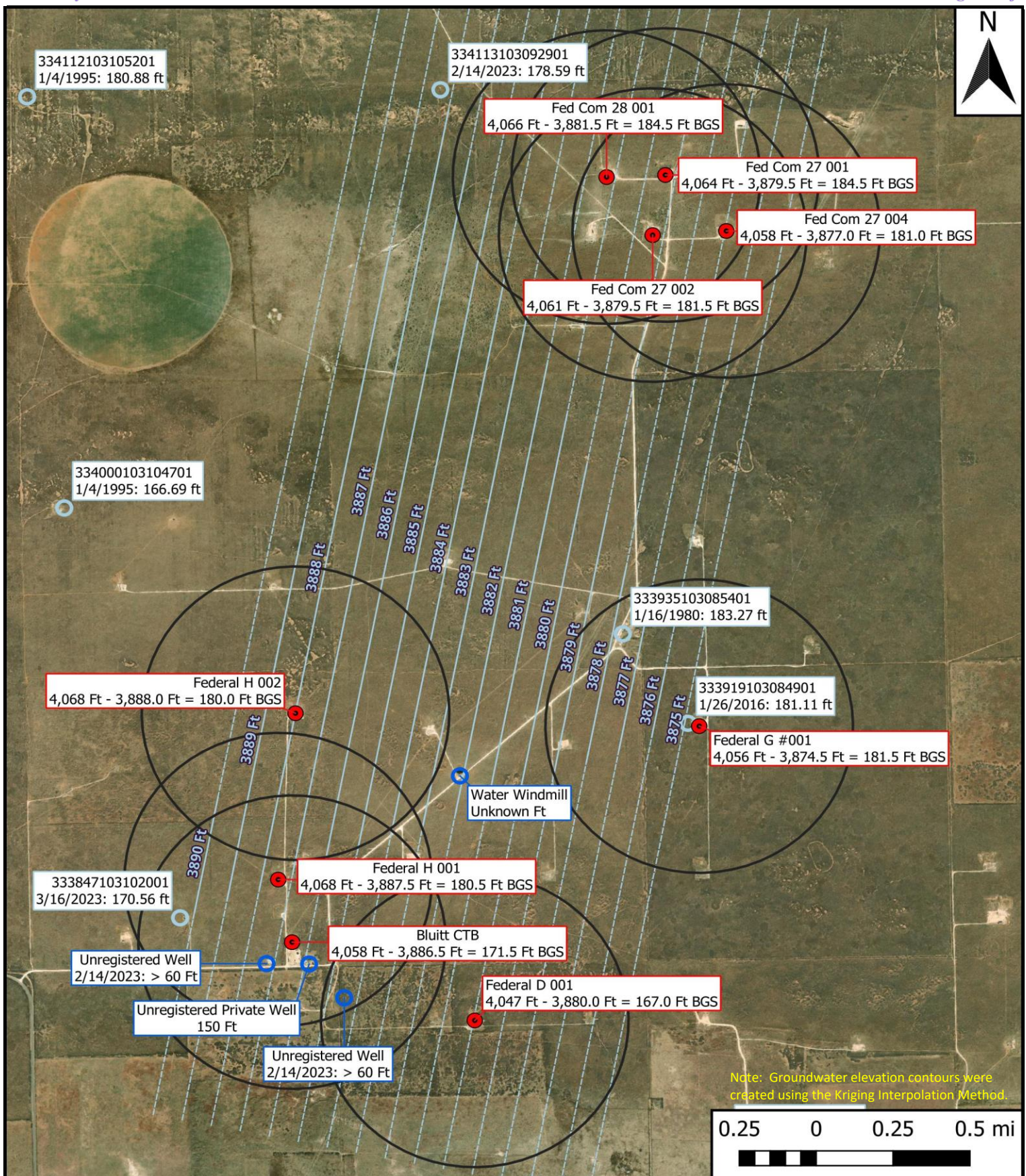
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



- Site Location
- Half Mile Radius
- Well - USGS
- Well - Other
- Groundwater Contours (Ft MSL)
- Extended Groundwater Contours

HL Brown Sites
 Inferred Depth to Groundwater Map
 H.L. Brown Operating, LLC
 Map GPS: 33.66350422, -103.15426221
 Roosevelt County, NM



Drafted: mag
 Checked: jwl
 Date: 3/17/23



Ground Water Sampling Log

Well ID: Unregistered Well

Date: 2/14/2023

Site Description/Construction Detail

Project: H2 Browns Personnel: _____

Well Description/Location: Abandoned well SE of House Total Depth^a (ft bmp): N/A

Type of Well: ☐ Monitor ☒ Recovery ☐ Potable ☐ Irrigation ☐ Other

Casing Material: PVC (Steel) Other _____ Diameter: 2" 4" 6" Other 10" Screen (ft bmp): Stow Pipe

Condition of Seal: Good Poor Needs Repair Other _____ Well Locked? Y N

Gauging Data

Static Water Level^b (ft bmp) 760 Time _____ Measure Point Description Top of casing .75 ft ass

Comments: Open @ 60 ft, did not go deeper, fear of equipment damage?

Well Purge Data

Volume Factors ^c					
Dia (in.)	2"	3"	4"	5"	6"
Gal/ft	0.163	0.367	0.653	1.020	1.469

Well Volume ((a-b) x c) = gal

Purging Volume (3 x Well Vol) = _____ gal

Well Purging Method: ☒ submersible ☐ peristaltic ☐ bailer ☐ other _____ Depth pump set (ft bmp) _____

Water Quality Indicator Parameters

[illegible]

Recording Interval: Traditional volume purge - every ½ well volume; Low flow - every 3-5 min, drawdown should not exceed 0.33ft during purging.

Total Gallons Purged _____

Approximate Discharge Rate (gpm): _____

Sample Data

Sample Collection Method: submersible peristaltic bailer other_____ Sample Time _____

Comments *Project name for sample labels (if abbr): _____ Duplicate Collected? Y N

Stability • pH: ± 0.1

Criteria:

- SC: $\pm 5\%$, for SC $\leq 100 \mu\text{S/cm}$; $\pm 3\%$, for SC $> 100 \mu\text{S/cm}$
- DO: $\pm 10\%$ or 0.3 mg/L (whichever is greater)
- Temp: $\pm 0.2^\circ\text{C}$ (USGS for thermistor)

Sample tubing left in well? Y N
(circle yes or no)

If so, **length** (ft)?



Ground Water Sampling Log

Well ID: C1nregistered well

Date: 2/14/2023

Site Description/Construction Detail

Project: HL Browns Personnel: _____

Well Description/Location: Abandoned well Total Depth^a (ft bmp): N/A

Type of Well: Monitor Recovery Potable Irrigation Other Abandoned Livestock

Casing Material: PVC Steel Other _____ Diameter: 2" 4" 6" Other _____ Screen (ft bmp): Stove Pipe

Condition of Seal: Good Poor Needs Repair Other _____ Well Locked? Y N

Gauging Data

Static Water Level^b (ft bmp) 760 ft Time _____ Measure Point Description Top of Casine 1.5 ft ass

Comments: Open @ 60 ft, did not go deeper, fear of losing equipment / damage

Well Purge Data

Volume Factors ^c					
Dia (in.)	2"	3"	4"	5"	6"
Gal/ft	0.163	0.367	0.653	1.020	1.469

Well Volume ((a-b) x c) = gal

Purging Volume (3 x Well Vol) = _____ gal

Well Purging Method: submersible peristaltic bailer other _____ Depth pump set (ft bmp) _____

Water Quality Indicator Parameters

[illegible]

Recording Interval: Traditional volume purge - every ½ well volume; Low flow - every 3-5 min, drawdown should not exceed 0.33ft during purging.

Total Gallons Purged

Approximate Discharge Rate (gpm): _____

Sample Data

Sample Collection Method: submersible peristaltic bailer other_____ Sample Time_____

Comments *Project name for sample labels (if abbr): _____ Duplicate Collected? Y N

Stability • pH: ± 0.1

Criteria:

- SC: $\pm 5\%$, for SC $\leq 100 \mu\text{S/cm}$; $\pm 3\%$, for SC $> 100 \mu\text{S/cm}$
- DO: $\pm 10\%$ or 0.3 mg/L (whichever is greater)
- Temp: $\pm 0.2^\circ\text{C}$ (USGS for thermistor)

Sample tubing left in well? Y N
(circle yes or no)

If so, **length** (ft)?



Ground Water Sampling Log

Well ID: 333647103102001

Date: 2/14/2016

Site Description/Construction Detail

Project: HL Browns Personnel: _____

Well Description/Location: Abandoned well Total Depth^a (ft bmp): NA

Type of Well: Monitor Recovery Potable Irrigation Other

Casing Material: PVC Steel Other _____ Diameter: 2" 4" 6" Other _____ Screen (ft bmp): Stone Pipe

Condition of Seal: Good Poor Needs Repair Other Well Locked? Y N

Gauging Data

Static Water Level^b (ft bmp) 760 Time Measure Point Description

Comments: Did not go deeper, fear of equipment damage

Well Purge Data

Volume Factors ^c					
Dia (in.)	2"	3"	4"	5"	6"
Gal/ft	0.163	0.367	0.653	1.020	1.469

Well Volume ((a-b) x c) = _____ gal

Purging Volume (3 x Well Vol) = gal

Well Purging Method: ☒ submersible ☐ peristaltic ☐ bailer ☐ other _____ Depth pump set (ft bmp) _____

Water Quality Indicator Parameters

[illegible]

Recording Interval: Traditional volume purge - every ½ well volume; Low flow - every 3-5 min, drawdown should not exceed 0.33ft during purging.

Total Gallons Purged

Approximate Discharge Rate (gpm): _____

Sample Data

Sample Collection Method: submersible peristaltic bailer other_____ Sample Time_____

Comments *Project name for sample labels (if abbr): _____ Duplicate Collected? Y N

Stability • pH: ± 0.1

Criteria:

- SC: $\pm 5\%$, for SC $\leq 100 \mu\text{S/cm}$; $\pm 3\%$, for SC $> 100 \mu\text{S/cm}$
- DO: $\pm 10\%$ or 0.3 mg/L (whichever is greater)
- Temp: $\pm 0.2^\circ\text{C}$ (USGS for thermistor)

Sample tubing left in well? Y N
(circle yes or no)

If so, **length** (ft)? _____



Ground Water Sampling Log

Well ID: 334113103092901

Date: 2/14/2023

Site Description/Construction Detail

Project: HL Browns Personnel: _____

Well Description/Location: NW of Fed Corner Total Depth^a (ft bmp): N/A

Type of Well: Monitor ☒ Recovery ☐ Potable ☐ Irrigation ☐ Other Abandoned / Livestock

Casing Material: PVC Steel Other _____ Diameter: 2" 4" 6" Other _____ Screen (ft bmp): _____

Condition of Seal:	Good	Poor	Needs Repair	Other	Well Locked?	Y	N

Gauging Data

Static Water Level^b (ft bmp) 178.59 Time _____ Measure Point Description Top of Casine

Comments:

Well Purge Data

Volume Factors ^c					
Dia (in.)	2"	3"	4"	5"	6"
Gal/ft	0.163	0.367	0.653	1.020	1.469

Well Volume ((a-b) x c) = _____ gal

Purging Volume (3 x Well Vol) = _____ gal

Well Purging Method: ☒ submersible ☐ peristaltic ☐ bailer ☐ other _____ Depth pump set (ft bmp) _____

Water Quality Indicator Parameters

[illegible]

Recording Interval: Traditional volume purge - every ½ well volume; Low flow - every 3-5 min, drawdown should not exceed 0.33ft during purging.

Total Gallons Purged _____

Approximate Discharge Rate (gpm): _____

Sample Data

Sample Collection Method: submersible peristaltic bailer other _____ Sample Time _____

Comments *Project name for sample labels (if abbr): _____ Duplicate Collected? Y N

- | | |
|-----------|---|
| Stability | • pH: ± 0.1 |
| Criteria: | <ul style="list-style-type: none"> • SC: $\pm 5\%$, for SC $\leq 100 \mu\text{S/cm}$; $\pm 3\%$, for SC $> 100 \mu\text{S/cm}$ • DO: $\pm 10\%$ or 0.3 mg/L (whichever is greater) • Temp: $\pm 0.2^\circ\text{C}$ (USGS for thermistor) |

Sample tubing left in well? Y N
(circle yes or no)

If so, **length** (ft)?



Ground Water Sampling Log

Well ID: 333847103102001

Date: 3/16/2023

Site Description/Construction Detail

Project: HL Browns Personnel: _____

Well Description/Location: Abandoned Well Total Depth^a (ft bmp): N/A

Type of Well: Monitor Recovery Potable Irrigation Other Abandoned Well, Livestock

Casing Material: PVC Steel Other _____ Diameter: 2" 4" 6" Other _____ Screen (ft bmp): Stone Pipe

Condition of Seal: Good Poor Needs Repair Other N/A Well Locked? Y (N)

Gauging Data

Static Water Level^b (ft bmp) 176.56 Time _____ Measure Point Description Top of Casing ~ 2 ft sgs

Comments:

Well Purge Data

Volume Factors ^c					
Dia (in.)	2"	3"	4"	5"	6"
Gal/ft	0.163	0.367	0.653	1.020	1.469

Well Volume ((a-b) x c) = gal

Purging Volume (3 x Well Vol) = _____ gal

Well Purging Method: submersible peristaltic bailer other _____ Depth pump set (ft bmp) _____

Water Quality Indicator Parameters

[illegible]

Recording Interval: Traditional volume purge - every ½ well volume; Low flow - every 3-5 min, drawdown should not exceed 0.33ft during purging.

Total Gallons Purged

Approximate Discharge Rate (gpm):

Sample Data

Sample Collection Method: submersible peristaltic bailer other _____ Sample Time _____

Comments *Project name for sample labels (if abbr): _____ Duplicate Collected? Y N

Stability • pH: ± 0.1

Criteria:

- SC: $\pm 5\%$, for SC $\leq 100 \mu\text{S/cm}$; $\pm 3\%$, for SC $> 100 \mu\text{S/cm}$
- DO: $\pm 10\%$ or 0.3 mg/L (whichever is greater)
- Temp: $\pm 0.2^\circ\text{C}$ (USGS for thermistor)

Sample tubing left in well? Y N
(circle yes or no)

If so, **length** (ft)?



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.

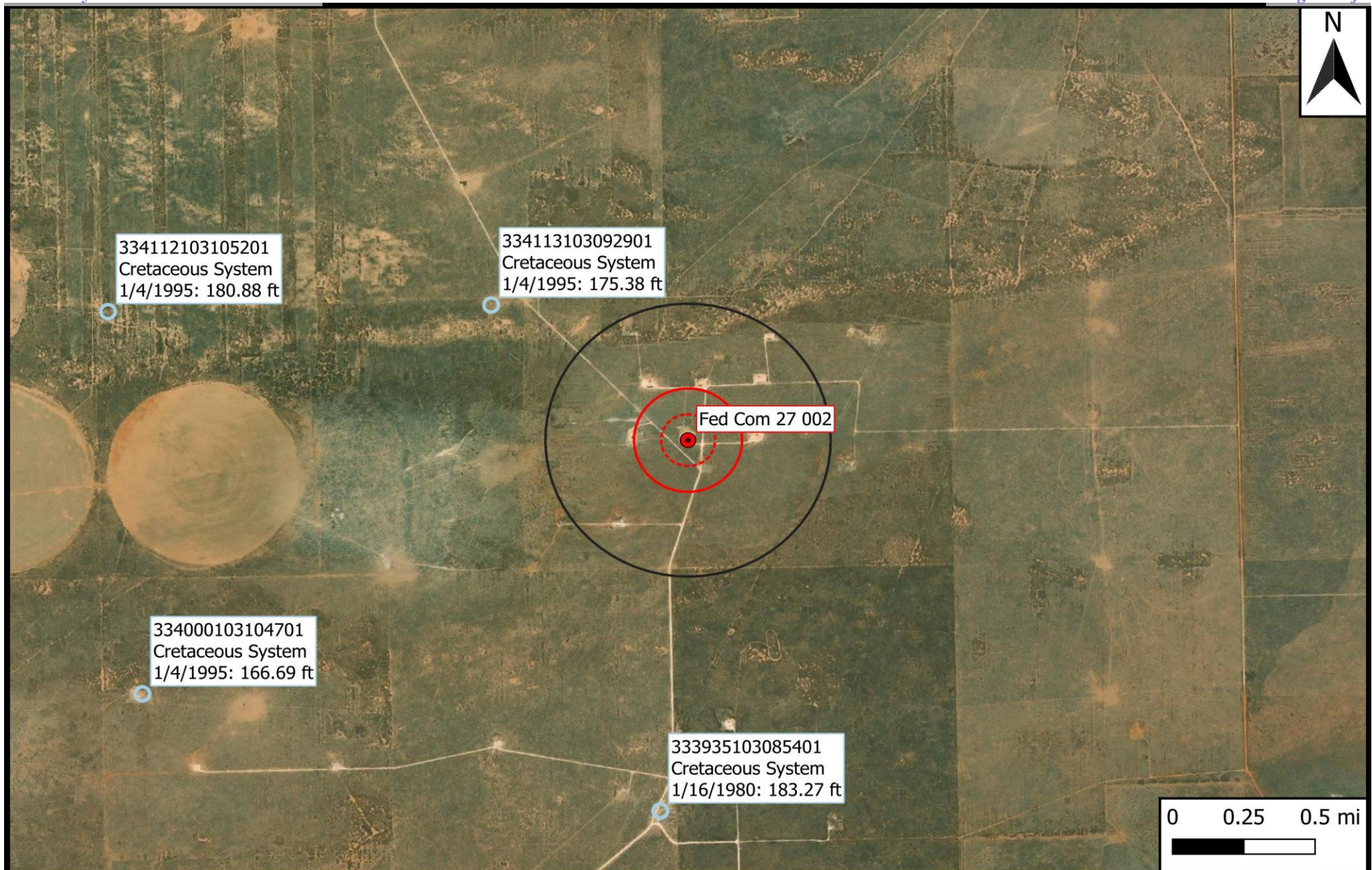
UTMNAD83 Radius Search (in meters):

Easting (X): 671644.24 **Northing (Y):** 3728089.42 **Radius:** 3220

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.

10/12/22 8:58 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



Legend

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

Figure 4

USGS Well Proximity Map
H. L. Brown Operating LLC
Fed Com 27 002
GPS: 33.678874, -103.148393
Roosevelt County



Drafted: mag

Checked: jk

Date: 10/12/22



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USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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site_no list =

- 333935103085401

Minimum number of levels = 1

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USGS 333935103085401 07S.37E.33.444213

Available data for this site

Groundwater: Field measurements

GO

Roosevelt County, New Mexico

Hydrologic Unit Code 12050001

Latitude 33°39'33", Longitude 103°09'00" NAD27

Land-surface elevation 4,049.00 feet above NGVD29

The depth of the well is 208 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Cretaceous System (210CRCS) local aquifer.

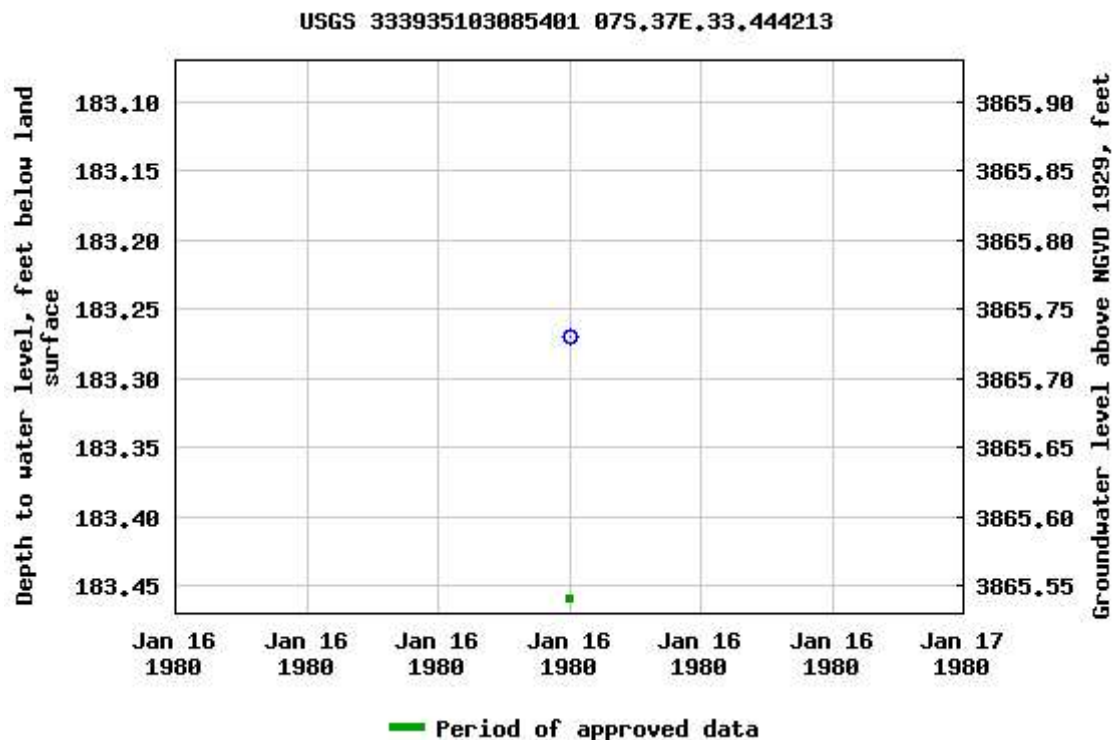
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0.58 0.49 nadww01





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- 334000103104701

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USGS 334000103104701 07S.37E.32.134131

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Groundwater: Field measurements

GO

Roosevelt County, New Mexico

Hydrologic Unit Code 12050001

Latitude 33°39'57", Longitude 103°10'53" NAD27

Land-surface elevation 4,074.00 feet above NGVD29

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Cretaceous System (210CRCS) local aquifer.

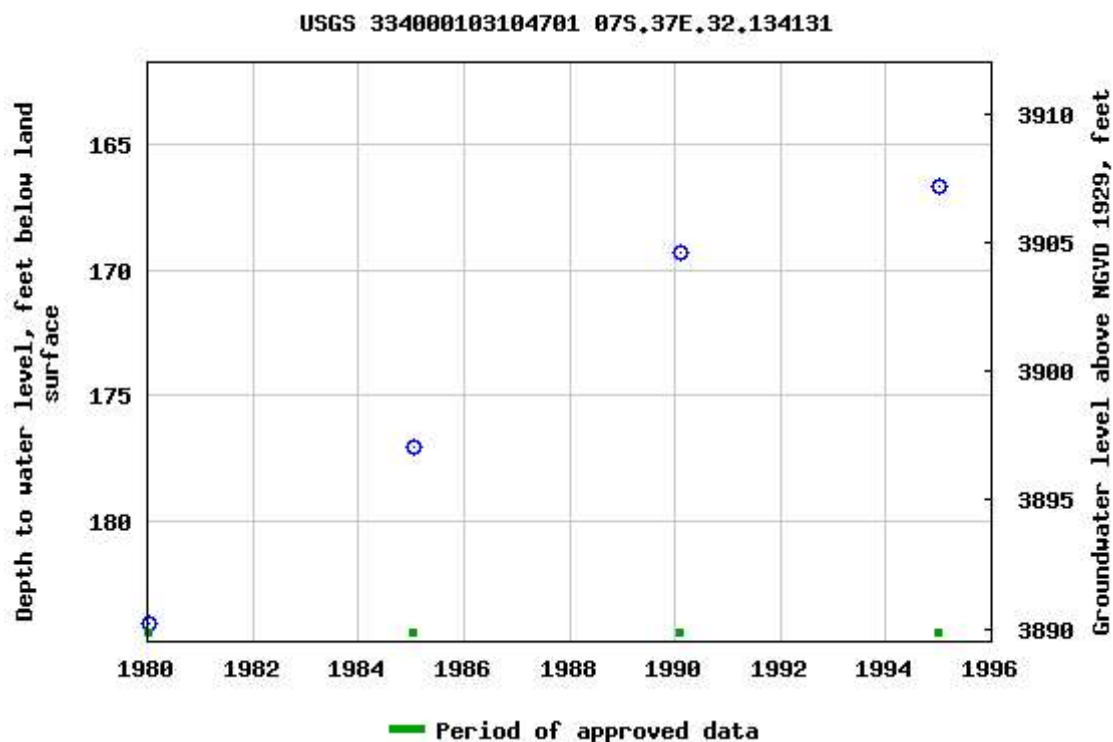
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0.63 0.56 nadww01





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- 334112103105201

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USGS 334112103105201 07S.37E.29.11110

Available data for this site

Groundwater: Field measurements

GO

Roosevelt County, New Mexico

Hydrologic Unit Code 12050001

Latitude 33°41'10", Longitude 103°10'59" NAD27

Land-surface elevation 4,082.00 feet above NGVD29

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Cretaceous System (210CRCS) local aquifer.

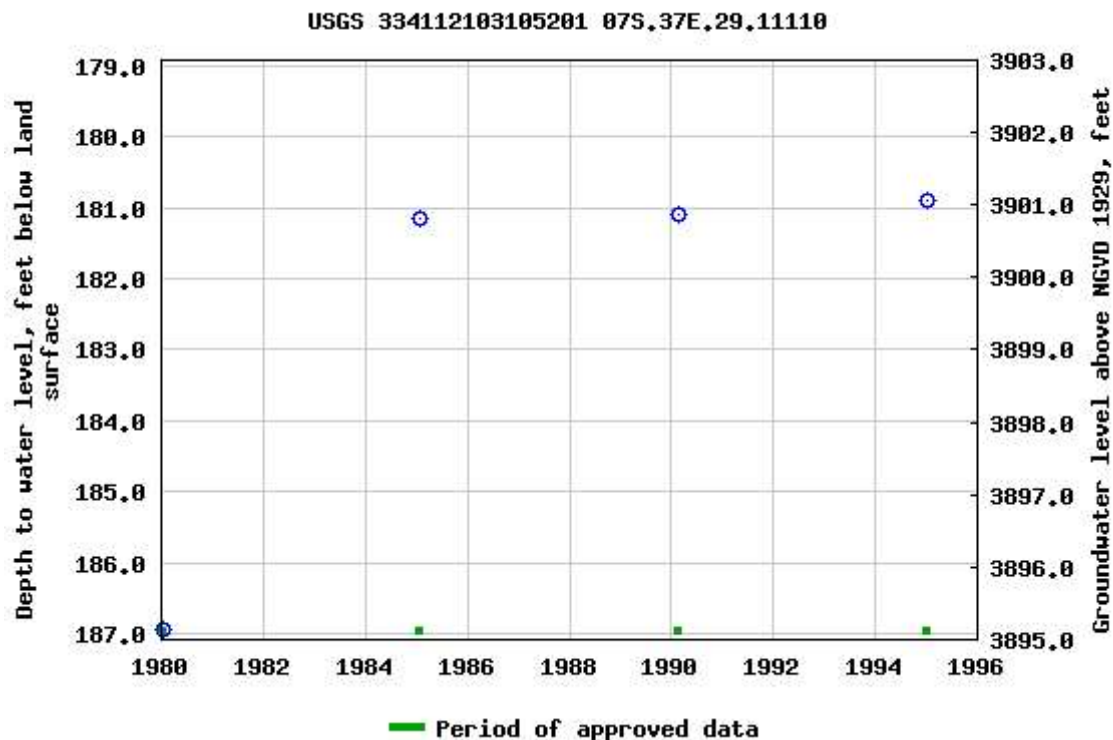
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0.6 0.52 nadww01





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- 334113103092901

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USGS 334113103092901 07S.37E.28.122113

Available data for this site

Groundwater: Field measurements

GO

Roosevelt County, New Mexico

Hydrologic Unit Code 12050001

Latitude 33°41'10", Longitude 103°09'35" NAD27

Land-surface elevation 4,064.00 feet above NGVD29

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Cretaceous System (210CRCS) local aquifer.

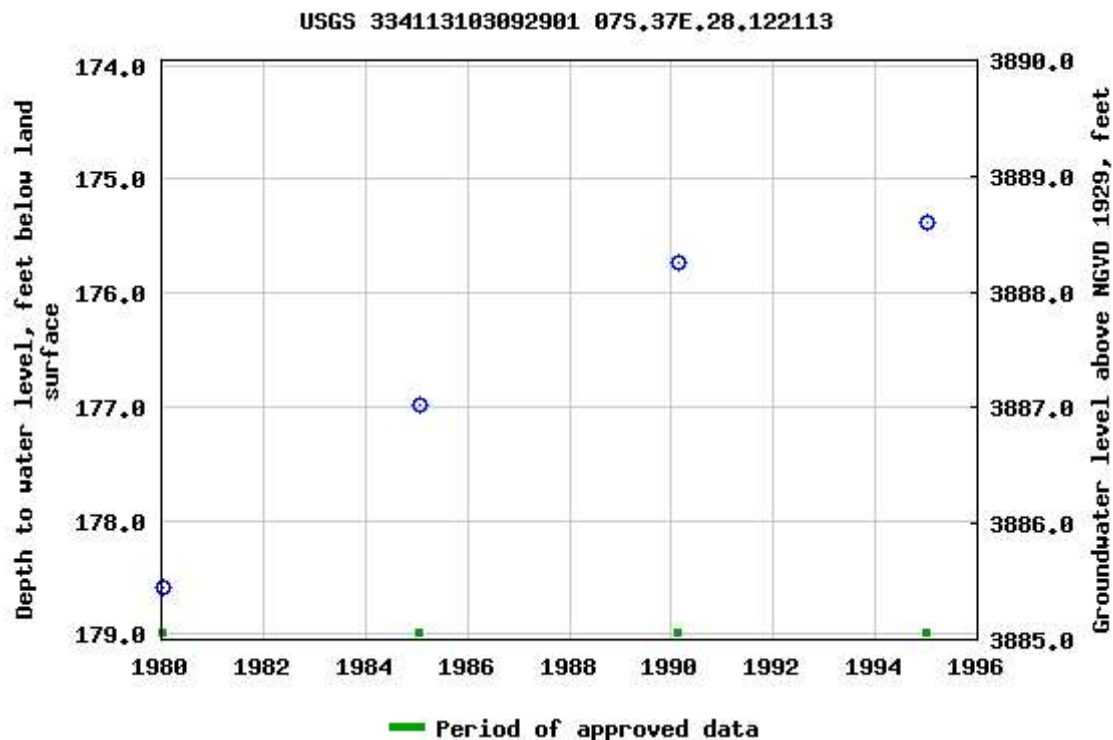
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0.62 0.55 nadww01



Appendix B

Field Data



Project Number: 16850 Latitude: 33.678874 Longitude: -103.148393

GPS Sample Points, Center of Comp Areas



Soil Profile

Date: 10/20/22

Project: Fed Com 27 002

Project Number: 16850 Latitude: 33.678874 Longitude: -103.148393

Depth (ft. bgs)	Description
1	2.10 lbs / Pad Material
2	Red Sand
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
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Appendix C

Laboratory Analytical Reports



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

October 28, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FED COM #22 002

Enclosed are the results of analyses for samples received by the laboratory on 10/20/22 16:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	FED COM #22 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Tamara Oldaker
Project Location:	RURAL ROOSEVELT CO., NM		

Sample ID: NW 1 (H224950-01)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 98.4 % 83.7-114

Surrogate: Toluene-d8 98.6 % 95.3-107

Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	10/26/2022	ND	400	100	400	7.69	

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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	70.1	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	18.2	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	FED COM #22 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Tamara Oldaker
Project Location:	RURAL ROOSEVELT CO., NM		

Sample ID: EW 1 (H224950-02)

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 99.0 % 83.7-114

Surrogate: Toluene-d8 103 % 95.3-107

Surrogate: 4-Bromofluorobenzene 97.0 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	10/26/2022	ND	400	100	400	7.69	

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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	FED COM #22 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Tamara Oldaker
Project Location:	RURAL ROOSEVELT CO., NM		

Sample ID: SW 1 (H224950-03)

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 100 % 83.7-114

Surrogate: Toluene-d8 104 % 95.3-107

Surrogate: 4-Bromofluorobenzene 98.2 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2670	16.0	10/26/2022	ND	400	100	400	7.69	

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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 114 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	FED COM #22 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Tamara Oldaker
Project Location:	RURAL ROOSEVELT CO., NM		

Sample ID: WW 1 (H224950-04)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 98.0 % 83.7-114
 Surrogate: Toluene-d8 98.7 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 99.1 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	10/26/2022	ND	400	100	400	7.69	
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	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	266	10.0	10/26/2022	ND	195	97.6	200	2.08	QM-07
EXT DRO >C28-C36	61.5	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 120 % 45.3-161
 Surrogate: 1-Chlorooctadecane 161 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	FED COM #22 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Tamara Oldaker
Project Location:	RURAL ROOSEVELT CO., NM		

Sample ID: NW 2 (H224950-05)

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61		
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16		
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62		
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26		
Total BTEX	<0.150	0.150	10/27/2022	ND						

Surrogate: Dibromofluoromethane 95.9 % 83.7-114

Surrogate: Toluene-d8 98.4 % 95.3-107

Surrogate: 4-Bromofluorobenzene 101 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/26/2022	ND	400	100	400	7.69		

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	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161

Surrogate: 1-Chlorooctadecane 126 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	FED COM #22 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Tamara Oldaker
Project Location:	RURAL ROOSEVELT CO., NM		

Sample ID: EW 2 (H224950-06)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	0.277	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	0.440	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	4.59	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTX	5.31	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 101 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 130 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/26/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	130	10.0	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	647	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	47.9	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 125 % 45.3-161
 Surrogate: 1-Chlorooctadecane 129 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	FED COM #22 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Tamara Oldaker
Project Location:	RURAL ROOSEVELT CO., NM		

Sample ID: SW 2 (H224950-07)

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 98.4 % 83.7-114

Surrogate: Toluene-d8 99.0 % 95.3-107

Surrogate: 4-Bromofluorobenzene 98.2 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	10/26/2022	ND	400	100	400	7.69		

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	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	12.5	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	FED COM #22 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Tamara Oldaker
Project Location:	RURAL ROOSEVELT CO., NM		

Sample ID: WW 2 (H224950-08)

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61		
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16		
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62		
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26		
Total BTEX	<0.150	0.150	10/27/2022	ND						

Surrogate: Dibromofluoromethane 98.2 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.1 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/26/2022	ND	400	100	400	7.69	

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	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 116 % 45.3-161
 Surrogate: 1-Chlorooctadecane 128 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	FED COM #22 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Tamara Oldaker
Project Location:	RURAL ROOSEVELT CO., NM		

Sample ID: FL 1 @ 2' (H224950-09)

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 102 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 97.5 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	10/26/2022	ND	400	100	400	7.69		

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	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	14.2	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 121 % 45.3-161
 Surrogate: 1-Chlorooctadecane 133 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	FED COM #22 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Tamara Oldaker
Project Location:	RURAL ROOSEVELT CO., NM		

Sample ID: FL 2 @ 2' (H224950-10)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 99.7 % 83.7-114
 Surrogate: Toluene-d8 102 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 97.1 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	10/26/2022	ND	400	100	400	7.69		

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	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	13.7	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 120 % 45.3-161
 Surrogate: 1-Chlorooctadecane 134 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	FED COM #22 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Tamara Oldaker
Project Location:	RURAL ROOSEVELT CO., NM		

Sample ID: FL 3 @ 1' (H224950-11)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 99.2 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.1 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/26/2022	ND	400	100	400	7.69	

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	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	10.4	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161
 Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions				BILL TO				ANALYSIS REQUEST																
Project Manager: Joel Lowry				P.O. #:																				
Address: 2617 W. Markand				Company: H.L. Brown																				
City: Hobbs State: NM Zip: 88246				Attn:																				
Phone #: 575- Fax #:				Address:																				
Project #: 16850 Project Owner: H.L. Brown				City:																				
Project Name: Fed Com 22 002				State: Zip:																				
Project Location: Rural Roosevelt Co., NM				Phone #:																				
Sampler Name: Miguel Ramirez				Fax #:																				
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	Chlorides	BTEX	TPH							
H224950																								
1 NW1		C	1			X					X		10/20/22		X	X	X							
2 EW1																								
3 SW1																								
4 WW1																								
5 NW2																								
6 EW2																								
7 SW2																								
8 WW2																								
9 FL1 @ 2'																								
10 FL2 @ 2'																								

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 10-20-22 Time: 1616	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One)	Observed Temp. °C 5.9	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS: pm@etechnv.com
Sampler - UPS - Bus - Other:	Corrected Temp. °C 5.3	CHECKED BY: (Initials) 90	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
			Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 Correction Factor -0.6°C

FORM-006 R 3.3 07/16/22

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



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


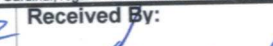

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

Page 15 of 15

[illegible]

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Relinquished By: 		Date: 10-20-22	Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date:	Received By:		All Results are emailed. Please provide Email address:	
		Time: 1614			REMARKS: pm@etechenv.com	
Delivered By: (Circle One)	Observed Temp. °C 5.9	Sample Condition Cool Intact	CHECKED BY: (Initials) 		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C 5.3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Thermometer ID #113 Correction Factor -0.6°C	<input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C

~~FORM-006 R 3.3 07/18/22~~

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



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

December 13, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FED COM #27 002

Enclosed are the results of analyses for samples received by the laboratory on 12/12/22 16:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/12/2022	Sampling Date:	12/12/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	FED COM #27 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: NH 1 @ 1' (H225852-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/13/2022	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	12/13/2022	ND	218	109	200	12.1		
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	197	98.6	200	15.4		
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND						
Surrogate: 1-Chlorooctane		97.9 %	45.3-161							
Surrogate: 1-Chlorooctadecane		109 %	46.3-178							

Sample ID: EH 1 @ 1' (H225852-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/13/2022	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	12/13/2022	ND	218	109	200	12.1	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	197	98.6	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					
Surrogate: 1-Chlorooctane		92.9 %	45.3-161						
Surrogate: 1-Chlorooctadecane		104 %	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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/12/2022	Sampling Date:	12/12/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	FED COM #27 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: EH 2 @ 1' (H225852-03)

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	12/13/2022	ND	400	100	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*	<10.0	10.0	12/13/2022	ND	218	109	200	12.1	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	197	98.6	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					
Surrogate: 1-Chlorooctane	96.5 %	45.3-161							
Surrogate: 1-Chlorooctadecane	107 %	46.3-178							

Sample ID: SH 1 @ 1' (H225852-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	12/13/2022	ND	400	100	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*	<10.0	10.0	12/13/2022	ND	218	109	200	12.1		
DRO >C10-C28*	13.9	10.0	12/13/2022	ND	197	98.6	200	15.4		
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND						
Surrogate: 1-Chlorooctane	86.9 %	45.3-161								
Surrogate: 1-Chlorooctadecane	95.6 %	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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/12/2022	Sampling Date:	12/12/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	FED COM #27 002	Sampling Condition:	Cool & Intact
Project Number:	16850	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: WH 1 @ 1' (H225852-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	12/13/2022	ND	400	100	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*	<10.0	10.0	12/13/2022	ND	215	108	200	4.51		
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	196	97.9	200	3.93		
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND						
Surrogate: 1-Chlorooctane	76.1 %	45.3-161								
Surrogate: 1-Chlorooctadecane	81.4 %	46.3-178								

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 W Marland				Company: H.L. Brown															
City: Hobbs State: NM Zip: 88240				Attn:															
Phone #: (575) 264-9884 Fax #:				Address:															
Project #: 16250 Project Owner: H.L. Brown				City:															
Project Name: Red com #27 002				State: Zip:															
Project Location: Rural Roosevelt co., NM				Phone #:															
Sampler Name: Miguel Ramirez				Fax #:															

FOR LAB USE ONLY		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)	
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER						
H225852																		
1	NH1 @1'	↓	↓			X				X			12/12/22		X	X	X	
2	EH1 @1'	↓	↓			X				X					X	X	X	
3	EH2 @1'	↓	↓			X				X					X	X	X	
4	SH @1'	↓	↓			X				X					X	X	X	
5	WH @1'	↓	↓			X				X					X	X	X	

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Relinquished By: [Signature] Date: 12/12/22 Time: 1:01	Received By: [Signature] Date: 12/12/22 Time: 1:01	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: Rush please
Relinquished By: Date: Time:	Received By: Date: Time:	Delivered By: (Circle One) 5.4JC-0.06 Sampler - UPS - Bus - Other: 4.8C #113

Sample Condition: Cool ☒ Yes ☐ No Intact ☒ Yes ☐ No
CHECKED BY: [Signature] (Initials)

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

FORM-006

Revision 1.0

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

Appendix D

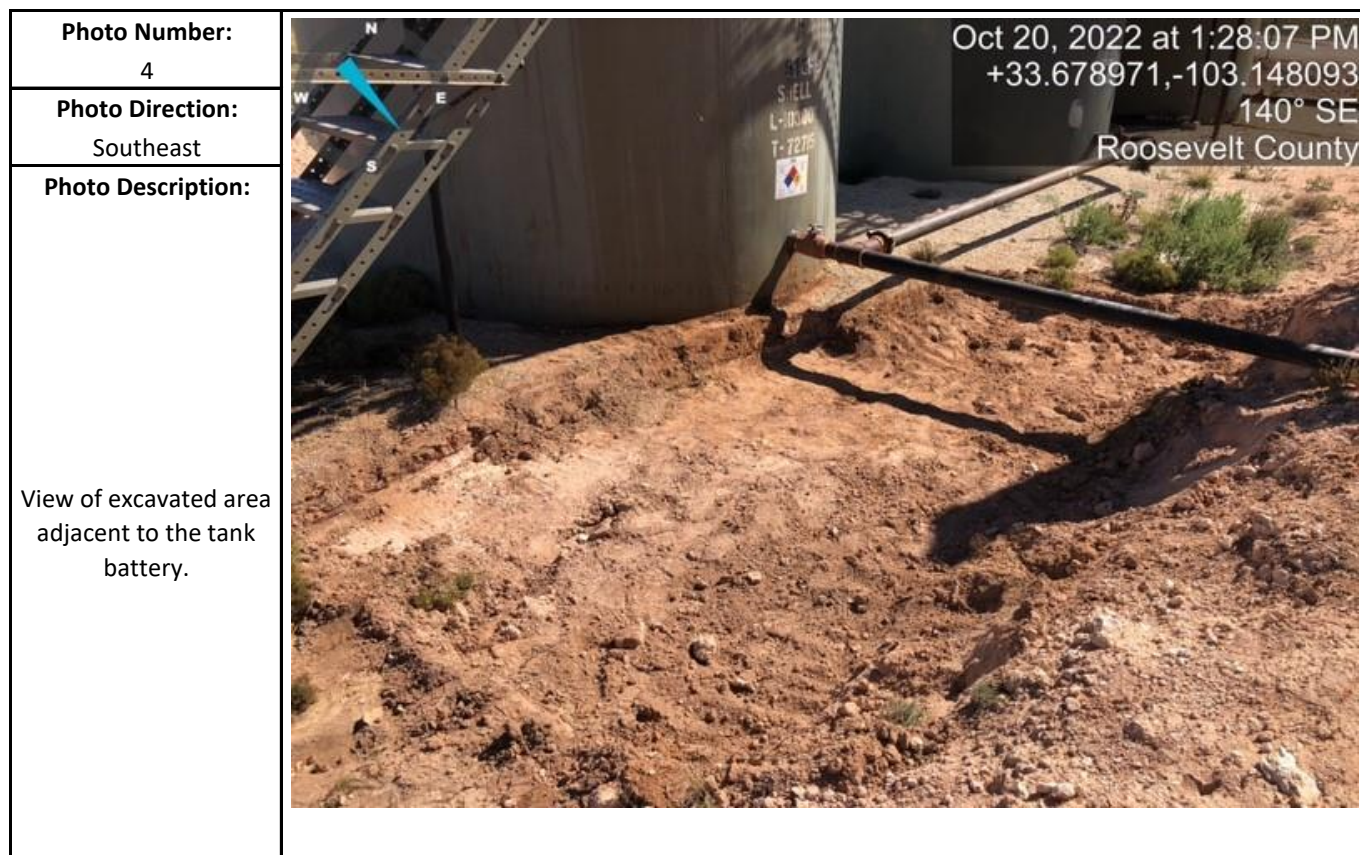
Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: Northwest	
Photo Description: View of impacted area adjacent to the well head.	


Photo Number: 2	
Photo Direction: North	
Photo Description: View of impacted area adjacent to the tank battery.	

Photographic Log

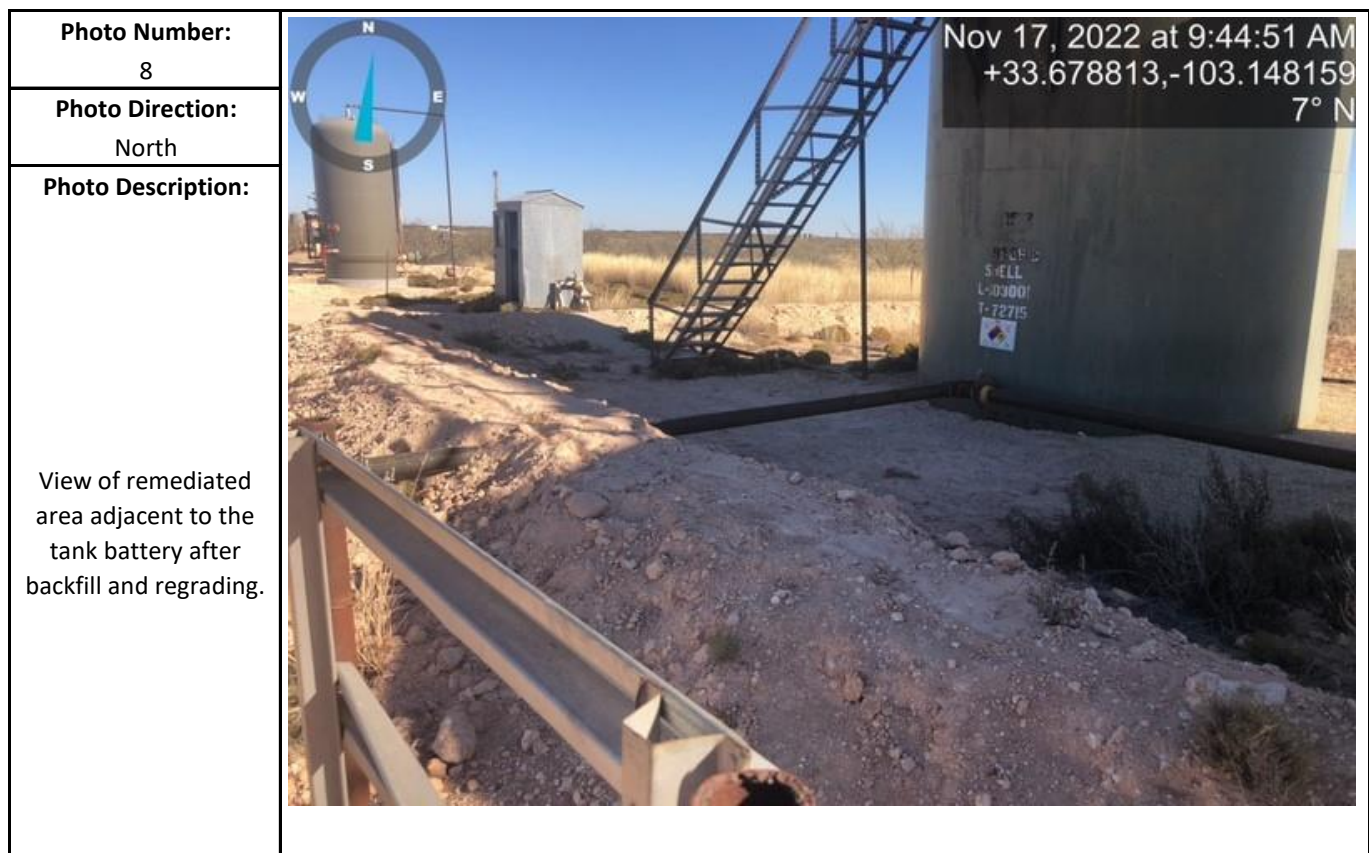
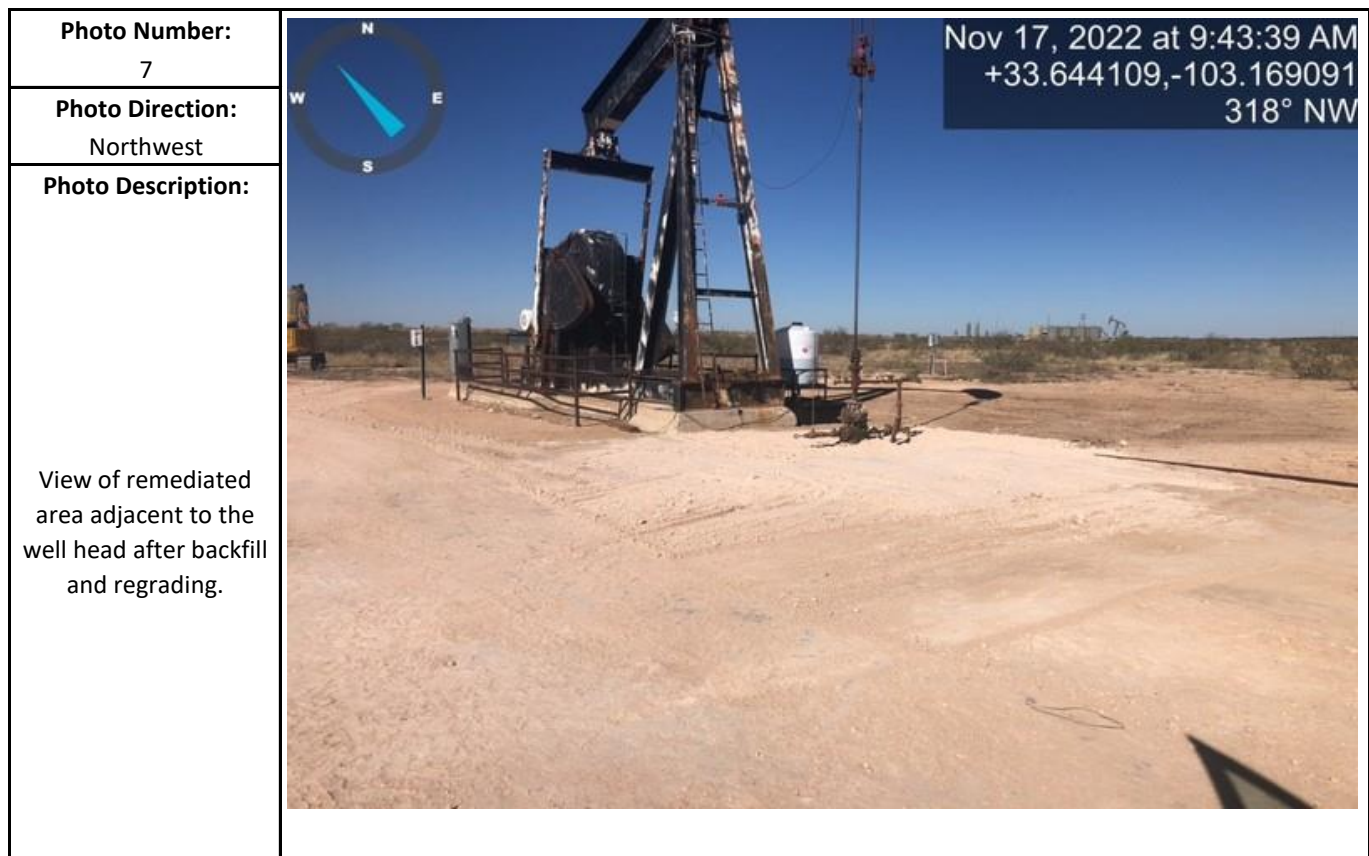


Photographic Log

Photo Number: 5	
Photo Direction: Northwest	
Photo Description: View of excavated area adjacent to the well head.	

Photo Number: 6	
Photo Direction: West	
Photo Description: View of excavated area adjacent to the well head.	

Photographic Log



Photographic Log

Photo Number: 9	
Photo Direction: East	
Photo Description: View of remediated area adjacent to the tank battery after backfill and regrading.	

Photo Number: 10	
Photo Direction: Northeast	
Photo Description: View of remediated area adjacent to the tank battery after backfill and regrading.	

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 202112

CONDITIONS

Operator: H L BROWN OPERATING, LLC P.O. Box 2237 Midland, TX 79702	OGRID: 213179
	Action Number: 202112
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	5/8/2023