

Remediation Summary & Soil Closure Request

Permian Resources Operating, LLC Queso Blanco CTB 1

Lea County, New Mexico
Unit Letter M, Section 13, Township 22 South, Range 34 East
Latitude 32.384497 North, Longitude 103.432012 West
NMOCD Reference No. nAPP2423950632

Prepared By:

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Robbie Runnels



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Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Permian Resources Operating, LLC, has prepared this Remediation Summary & Soil Closure Request for the release site known as the Queso Blanco CTB 1 (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.384497 Longitude: -103.432012

Provided GPS are in WGS84 format.

Site Name: <u>Queso Blanco CTB 1</u>	Site Type: <u>Pipeline</u>
Date Release Discovered: <u>8/26/2024</u>	API # (if applicable):

Unit Letter	Section	Township	Range	County
M	13	22S	34E	Lea

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

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls) <u>0</u>	Volume Recovered (bbls) <u>0</u>
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>19</u>	Volume Recovered (bbls) <u>0</u>
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered
Cause of Release: normal operations		

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 New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 26 and 50 (ft.)
What method was used to determine the depth to groundwater?	Direct Measurement
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution or church?	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring?	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Greater than 5 (mi.)
A wetland?	Between 1000 (ft.) and ½ (mi.)
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Between ½ and 1 (mi.)
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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 and NMOCD siting information is provided as Appendix A.

Additional NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2A, 2B, 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 Standards for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
Between 26 and 50 (ft.)	Chloride (Cl ⁻)	EPA** 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	N/A	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

** Environmental Protection Agency

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

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

4.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
On what estimated date will (or did) the remediation commence?	4/8/2025
On what date will (or did) the final sampling or liner inspection occur?	4/28/2025
On what date will (or was) the remediation complete(d)?	5/14/2025
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	0
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	0
What was the total surface area (sq. ft.) that has or will be remediated?	2,070
What was the total volume (cy) that has or will be remediated?	1,444
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes/Fertilizer, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	OWL Landfill Jal
NMOCD Disposal Facility ID?	fJEG1635837366
Summarize any additional remediation activities not included by answers above.	See below

On April 8, 2025, Etech commenced remediation activities at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	448	FL 3 @ 18', FL 7 @ 14', FL 8 @ 10'	4/25/2025	10 - 18	In-Situ
TPH	<30.0	All submitted samples	4/10 - 4/28/25	0 - 19	In-Situ
GRO+DRO	<20.0	All submitted samples	4/10 - 4/28/25	0 - 19	In-Situ
BTEX	<0.300	All submitted samples	4/10 - 4/28/25	0 - 19	In-Situ
Benzene	<0.050	All submitted samples	4/10 - 4/28/25	0 - 19	In-Situ

Please reference Table 1 for additional information.

On April 10, 2025, five (5) confirmation soil samples (FL 1 @ 14', FL 2 @ 17' FL 3 @ 18', EW 1, and NW 1) were retrieved from the floor and sidewalls of the excavated area. The confirmation soil samples were delivered to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards for each of the submitted soil samples.

On April 14, 2025, three (3) confirmation soil samples (SW 1, SW 2, and SW 3) were retrieved from the sidewall of the excavation. The confirmation soil samples were delivered to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that concentrations of BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards for each of the submitted soil samples.

On April 25, 2025, fourteen (14) confirmation soil samples (FL 4 @ 19', FL 5 @ 18, FL 6 @ 14', FL 7 @ 14', FL 8 @ 10', FL 9 @ 10', FL 10 @ 16', FL 11 @ 14', NW 3, NW 5, SW 4, WW 1, WW 2, and WW 3) were retrieved from floor and the sidewalls of the excavation. The confirmation soil samples were delivered to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that concentrations of BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards for each of the submitted soil samples.

On April 28, 2025, six (6) confirmation soil samples (FL 12 @ 19', FL 13 @ 10', NW 2, NW 4, NW 6, and SW 5) were retrieved from the floor and sidewalls of the excavation. The confirmation soil samples were delivered to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that concentrations of BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards for each of the submitted soil

The final dimensions of the excavated area were approximately 85 to 90 feet in length, 23 to 25 feet in width, and 10 to 19 feet in depth. During the course of remediation activities, Etech transported approximately 1,444 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 1,198 cubic yards of locally sourced, non-impacted material to the Site for use as backfill.

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

5.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	<u>2,070</u>	
What was the total volume (cy) remediated?	<u>1,444</u>	

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Permian Resources Operating, LLC provide copies of this Remediation Summary & Soil Closure Request to the appropriate agencies and request remediation closure approval be granted to the Site.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a reclamation approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (in square feet) reclaimed?	2,070	
What was the total volume (in cubic yards) reclaimed?	1,444	

On May 15, 2025, in accordance with the NMOCD, two (2) 5-point composite soil samples (Merchant Jalapeno Topsoil Pit and Merchant San Simone Caliche Pit) were collected from the imported material stockpiled on-site to be utilized as backfill. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations in the soil sample were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards and confirmed that the material was acceptable for use as backfill.

From April 28, 2025 through May 12, 2025, upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Areas affected by remediation activities will be reseeded with a landowner-approved seed mixture during the first favorable growing season following closure of the Site.

7.0 LIMITATIONS

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

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

8.0 DISTRIBUTION

Permian Resources Operating, LLC

300 N. Marienfeld St. Suite 100

Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

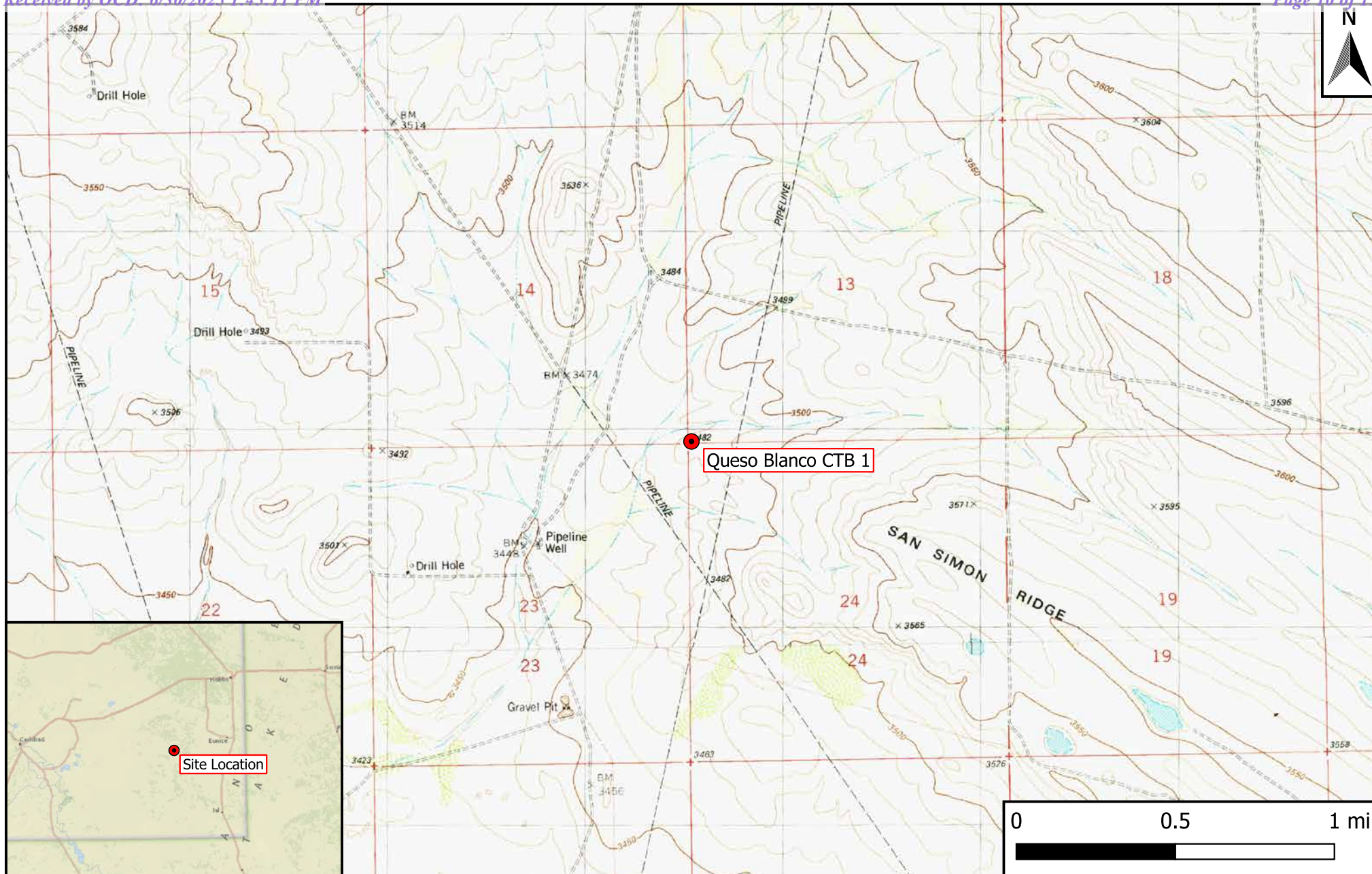
811 S. First Street

Artesia, NM 88210

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1
 Site Location Map
 Permian Resources
 Queso Blanco CTB 1
 GPS: 32.384590, -103.432140
 Lea County, New Mexico



Figures 2A & 2B

Site Characterization Maps

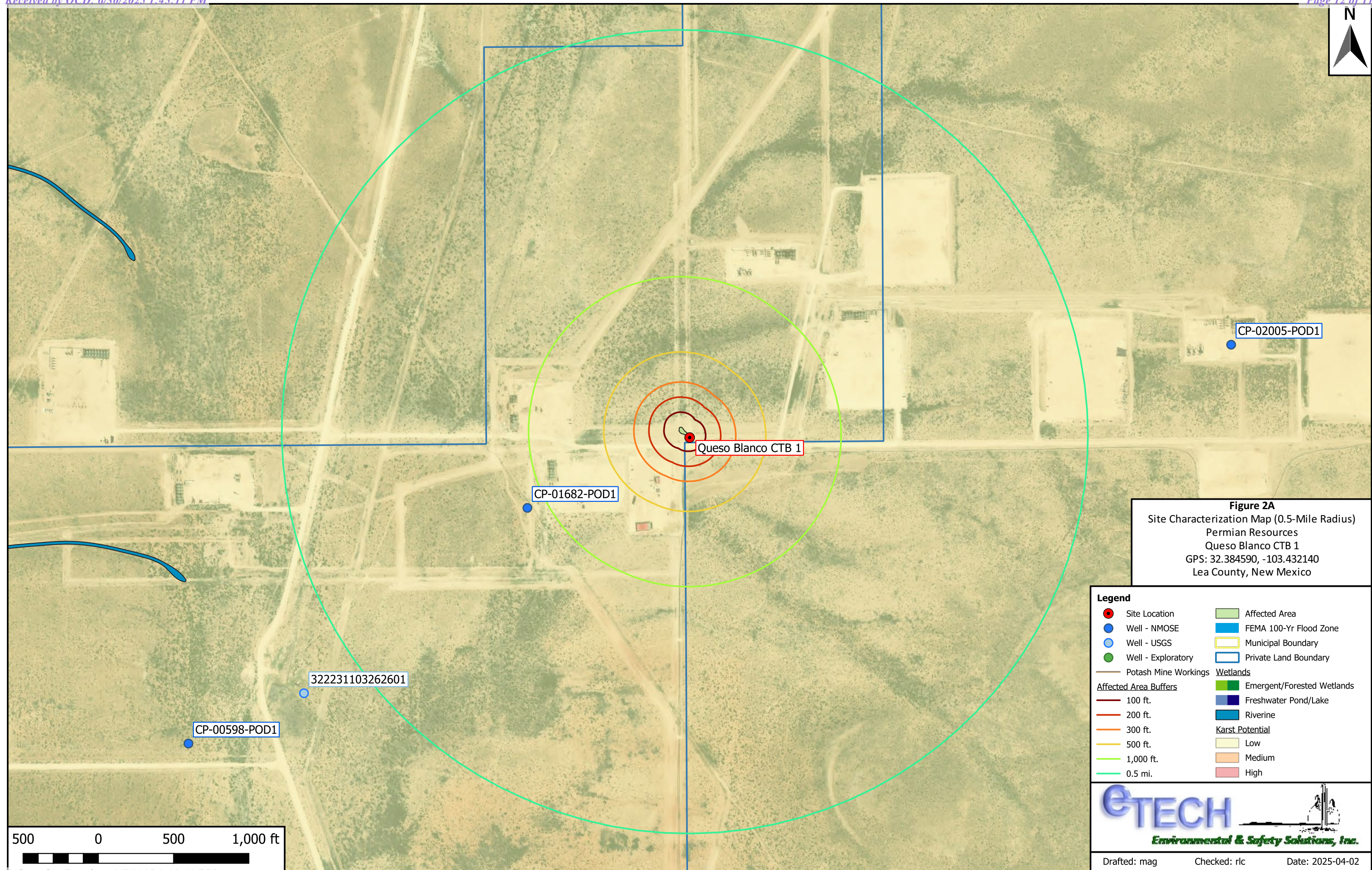


Figure 2A
Site Characterization Map (0.5-Mile Radius)
Permian Resources
Queso Blanco CTB 1
GPS: 32.384590, -103.432140
Lea County, New Mexico

Legend	
Site Location	Affected Area
Well - NMOS	FEMA 100-Yr Flood Zone
Well - USGS	Municipal Boundary
Well - Exploratory	Private Land Boundary
Potash Mine Workings	Wetlands
Affected Area Buffers	
100 ft.	Emergent/Forested Wetlands
200 ft.	Freshwater Pond/Lake
300 ft.	Riverine
500 ft.	Karst Potential
1,000 ft.	Low
0.5 mi.	Medium
	High

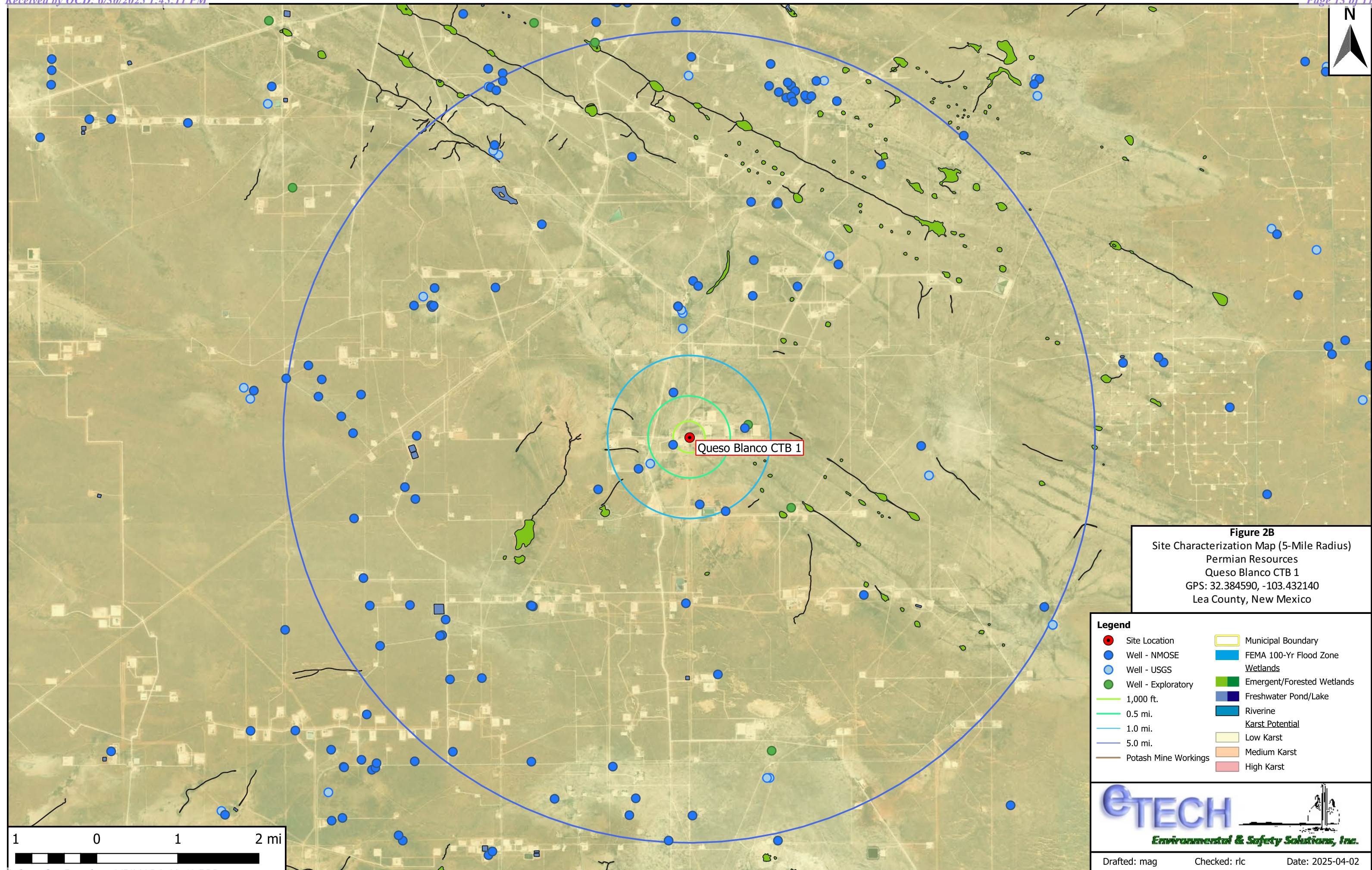
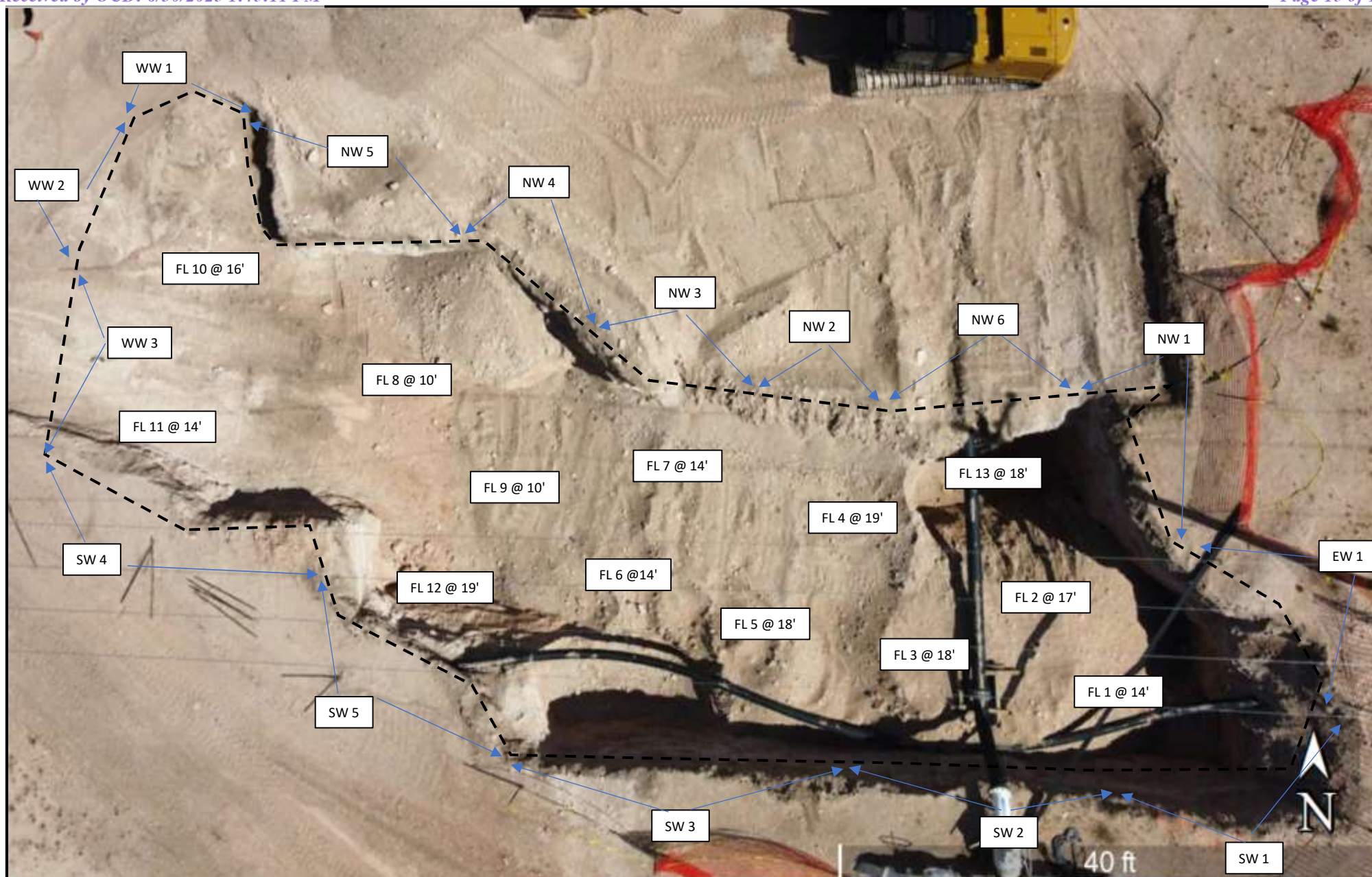


Figure 2B
Site Characterization Map (5-Mile Radius)
Permian Resources
Queso Blanco CTB 1
GPS: 32.384590, -103.432140
Lea County, New Mexico

- Legend**
- | | |
|------------------------|------------------------------|
| ● Site Location | ▭ Municipal Boundary |
| ● Well - NMOSE | ▭ FEMA 100-Yr Flood Zone |
| ● Well - USGS | ▭ Wetlands |
| ● Well - Exploratory | ▭ Emergent/Forested Wetlands |
| — 1,000 ft. | ▭ Freshwater Pond/Lake |
| — 0.5 mi. | ▭ Riverine |
| — 1.0 mi. | ▭ Karst Potential |
| — 5.0 mi. | ▭ Low Karst |
| — Potash Mine Workings | ▭ Medium Karst |
| | ▭ High Karst |

Figure 3

Sample Location Map



Legend:

- FL 2 Sample Area
- Excavated Area

Figure 3

Sample Location Map
 Permian Resources Operating, LLC
 Queso Blanco CTB 1
 GPS: 32.384497, -103.432012
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: rr

Checked: jwl

Date: 5/22/25

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Permian Resources Operating, LLC Queso Blanco CTB 1 NMOCD Ref. #: nAPP2423950632											
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)
FL 1 @ 14'	4/10/2025	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 2 @ 17'	4/10/2025	17	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 3 @ 18'	4/10/2025	18	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 4 @ 19'	4/25/2025	19	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 5 @ 18'	4/25/2025	18	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 6 @ 14'	4/25/2025	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 7 @ 14'	4/25/2025	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 8 @ 10'	4/25/2025	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 9 @ 10'	4/25/2025	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 10 @ 16'	4/25/2025	16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 11 @ 14'	4/25/2025	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 12 @ 19'	4/28/2025	19	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 13 @ 10'	4/28/2025	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
EW 1	4/10/2025	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW 1	4/10/2025	0-18	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW 2	4/28/2025	0-19	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 3	4/25/2025	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
NW 4	4/28/2025	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 5	4/25/2025	0-16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
NW 6	4/28/2025	0-19	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
SW 1	4/14/2025	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 2	4/14/2025	0-18	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 3	4/14/2025	0-18	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 4	4/25/2025	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW 5	4/28/2025	0-19	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WW 1	4/25/2025	0-16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 2	4/25/2025	0-16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
WW 3	4/25/2025	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
Merchant Jalapeno Topsoil Pit	5/15/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
Merchan San Simone Caliche Pit	5/15/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480

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

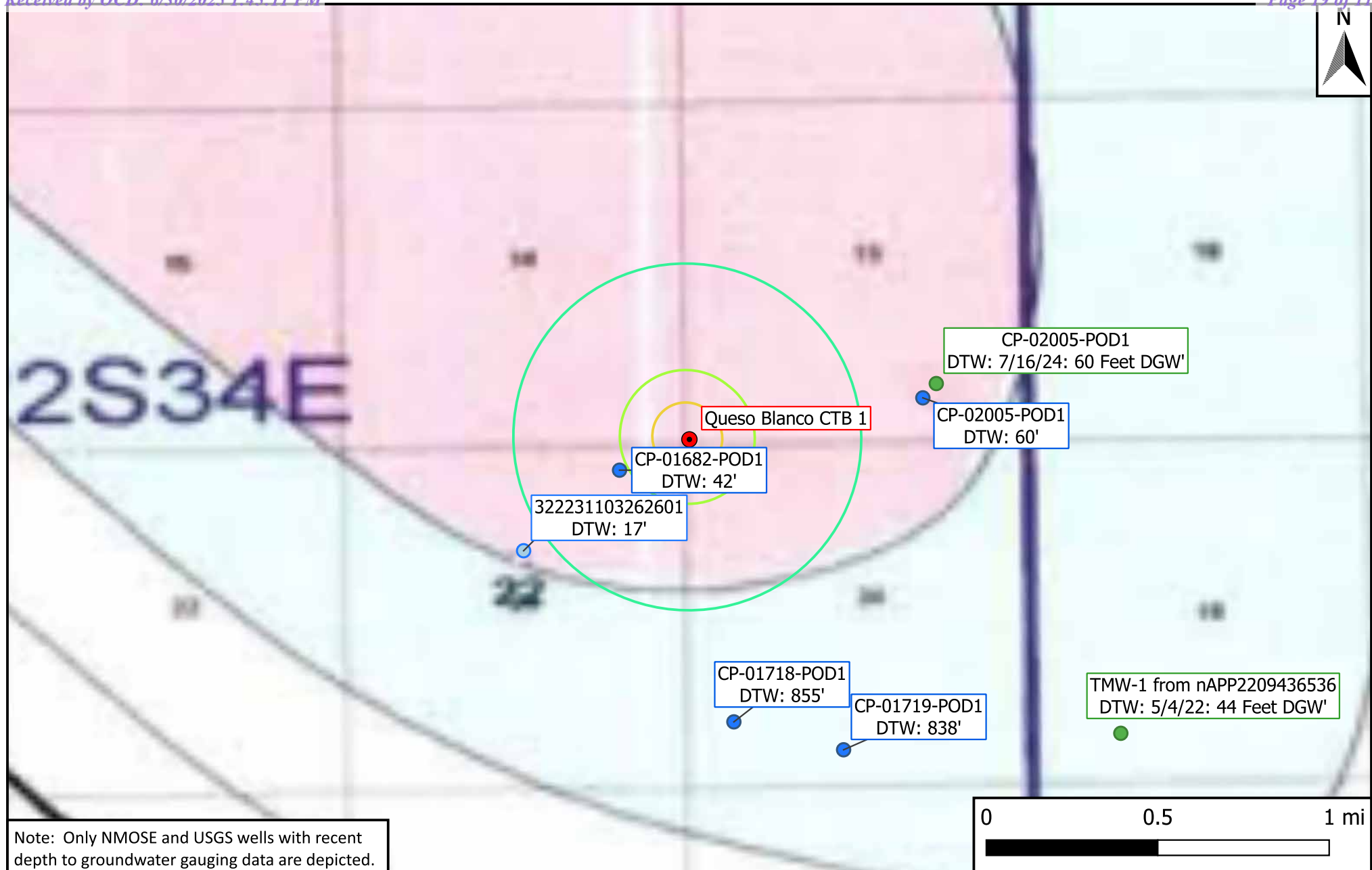
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Appendix A

Depth to Groundwater Information



Legend

- Active Site Locations
- Well - NMOSE
- Well - USGS
- Well - Exploratory
- Affected Area
- 500 ft.
- 1,000 ft.
- 0.5 mi.

Figure 4
Inferred Depth to Groundwater Map
Permian Resources
Queso Blanco CTB 1
GPS: 32.384590, -103.432140
Lea County, New Mexico




Drafted: mag

Checked: rlc

Date: 2025-04-02

Point of Diversion Summary

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

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tw	Rng	X	Y	Map
2062A	CP 01682 POD1	NW	NE	NE	23	22S	34E	647163.5	3583992.4	

* UTM location was derived from PLSS - see Help

Driller License:	421	Driller Company:	GLENN'S WATER WELL SERVICE		
Driller Name:	CORKY GLENN				
Drill Start Date:	2019-09-10	Drill Finish Date:	2019-09-13	Plug Date:	
Log File Date:	2019-09-19	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	15
Casing Size:	8.13	Depth Well:	294	Depth Water:	42

Water Bearing Stratifications:

Top	Bottom	Description
42	56	Sandstone/Gravel/Conglomerate
68	92	Sandstone/Gravel/Conglomerate
242	274	Shale/Mudstone/Siltstone

Casing Perforations:

Top	Bottom
0	294

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.

4/2/25 12:19 PM MST

Point of Diversion Summary

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2019 SEP 15 10:00 AM
STATE ENGINEER
RECEIVED

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) CP-1682-POD1 South 2		WELL TAG ID NO. 2062A		OSE FILE NO(S). CP-1682			
	WELL OWNER NAME(S) Merchant Livestock Company/Glenn's Water Well Service, Inc.				PHONE (OPTIONAL) 575-398-2424			
	WELL OWNER MAILING ADDRESS PO Box 692				CITY Tatum		STATE NM	
					ZIP 88267			
	WELL LOCATION (FROM GPS)		DEGREES 32	MINUTES 22	SECONDS 59.66	N		
		LONGITUDE -103	26	7.87	W			
* ACCURACY REQUIRED: ONE TENTH OF A SECOND								
* DATUM REQUIRED: WGS 84								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW1/4 NE1/4 NE1/4 Section 23, Township 22 South, Range 34 East on Merchant Livestock Company Land								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD 421		NAME OF LICENSED DRILLER Corky Glenn			NAME OF WELL DRILLING COMPANY Glenn's Water Well Service, Inc.		
	DRILLING STARTED 09/10/19	DRILLING ENDED 09/13/19	DEPTH OF COMPLETED WELL (FT) 294		BORE HOLE DEPTH (FT) 294	DEPTH WATER FIRST ENCOUNTERED (FT) 42		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 31		
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	22.5'	20"	Steel 12 3/4" OD	Plain End	12.25	.25	---
	0	294'	20"	Steel Casing 8 5/8" / 8.625" OD	Plain End	8.125	.25	1/8"
				Bottom 252 Perforated				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	22.5'	20"	Cemented Redi Mix	Fill to Top	Top Pour		
	0	294'	20"	3/8" Veilmore Gravel	18.52 CY	Top Pour		

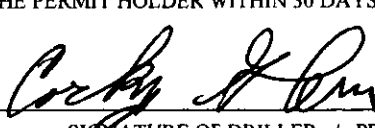
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. CP-1682	POD NO. 1	TRN NO. 632044
LOCATION 212 Sec 23 T22S R 34E	WELL TAG ID NO. 2062A	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Soil	Y ✓ N	
	6	9	3	Soil & Sand	Y ✓ N	
	9	16	7	Caliche	Y ✓ N	
	16	20	4	Clay & Sand	Y ✓ N	
	20	42	22	Red Clay	Y ✓ N	
	42	56	14	Brown Sandrock	✓ Y N	5.00
	56	63	7	Red Clay	Y ✓ N	
	63	68	5	White & Green Clay	Y ✓ N	
	68	92	24	Brown Sandrock	✓ Y N	9.00
	92	122	30	Red Clay	Y ✓ N	
	122	128	6	Brown Shale	Y ✓ N	
	128	165	37	Red Clay with Stringers of Brown Sandrock	Y ✓ N	
	165	187	22	Brown Shale	Y ✓ N	
	187	225	38	Red Clay & Red Shale	Y ✓ N	
	225	242	17	Brown Shale	Y ✓ N	
	242	274	32	Blue Sandrock & Shale	✓ Y N	1.00
	274	294	20	Red Shale	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 15.00	

5. TEST, RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Travis Glenn License # 1719 (Glenn's Water Well Service, Inc.)		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Corky Glenn DATE 9/17/19

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. CP-1682	POD NO. 1	TRN NO. 632044
LOCATION 212 Sec 23 T22S R34E	WELL TAG ID NO. 2062A	PAGE 2 OF 2

Appendix B

Field Data

Sample Log

Date:

Project: Queso Blanco CTB 1

Project Number: 21762

Latitude: 32.384497

Longitude: -103.432012

[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

Appendix C

Photographic Log

Photographic Log



Photographic Log



Photographic Log



Appendix D

Laboratory Analytical Reports



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

April 15, 2025

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: QUESO BLANCO CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 04/11/25 8:21.

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

Cardinal Laboratories is 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
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	04/11/2025	Sampling Date:	04/10/2025
Reported:	04/15/2025	Sampling Type:	Soil
Project Name:	QUESO BLANCO CTB 1	Sampling Condition:	Cool & Intact
Project Number:	21762	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.384497-103.432012		

Sample ID: FL 1 @ 14' (H252161-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/11/2025	ND	416	104	400	0.00	

Sample ID: FL 2 @ 17' (H252161-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/11/2025	ND	416	104	400	0.00	

Sample ID: FL 3 @ 18' (H252161-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/11/2025	ND	416	104	400	0.00	

Sample ID: NW 1 (H252161-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/11/2025	ND	416	104	400	0.00	

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
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/11/2025
 Reported: 04/15/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 1 (H252161-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/11/2025	ND	416	104	400	0.00		

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*=Accredited Analyte

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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

Page 1 of 1

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Robbie Runnels				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Chloride TPH (8015M) added 4/14/25 BTEX (8021B) </div> <div style="border: 1px solid black; width: 100px; height: 100px; margin: 10px;"></div> </div>																					
Address: 2617 West Marland				Company: Permian Resources																									
City: Hobbs State: NM Zip: 88240				Attn: Montgomery Floyd																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 21762 Project Owner: Permian Resources				City:																									
Project Name: Queso Blanco CTB 1				State: Zip:																									
Project Location: 32.384497, -103.432012				Phone #:																									
Sampler Name: Martin Sepulveda				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	
H252161				C		1						X								X						4/10/25			
1		FL 1 @ 14'		C		1						X								X						4/10/25			
2		FL 2 @ 17'		C		1						X								X						4/10/25			
3		FL 3 @ 18'		C		1						X								X						4/10/25			
4		NW 1		C		1						X								X						4/10/25			
5		EW 1		C		1						X								X						4/10/25			

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Relinquished By:		Date: 4/11/25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 0821		Time: 0821		All Results are emailed. Please provide Email address: pm@etechenv.com			
Relinquished By:		Date:		Received By:		REMARKS:	
Time:						Run Chloride first, and hold BTEX and TPH. If Chloride result is less than 600 mg/kg, then run BTEX and TPH for that sample.	
Delivered By: (Circle One)		Observed Temp. °C -5.8		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -5.5		CHECKED BY: (Initials) 82		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
						<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
						Thermometer ID #140 Correction Factor +0.6°C 10.3	
						Corrected Temp. °C	



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

April 16, 2025

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: QUESO BLANCO CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 04/11/25 8:21.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez
 Analyzed By: JH

SampleID: FL 1 @ 14' (H252161-01)**BTEX 8021B mg/kg**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.17	108	2.00	1.09	
Toluene*	<0.050	0.050	04/14/2025	ND	2.25	113	2.00	1.53	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.11	105	2.00	2.25	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.35	106	6.00	2.29	
Total BTEX	<0.300	0.300	04/14/2025	ND					

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

Chloride, SM4500Cl-B mg/kg

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/11/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2025	ND	189	94.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	185	92.3	200	0.729	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.7 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez
 Analyzed By: JH

SampleID: FL 2 @ 17' (H252161-02)**BTEX 8021B****mg/kg**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.17	108	2.00	1.09	
Toluene*	<0.050	0.050	04/14/2025	ND	2.25	113	2.00	1.53	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.11	105	2.00	2.25	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.35	106	6.00	2.29	
Total BTEX	<0.300	0.300	04/14/2025	ND					

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

Chloride, SM4500Cl-B**mg/kg**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/11/2025	ND	416	104	400	0.00	

TPH 8015M**mg/kg**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2025	ND	189	94.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	185	92.3	200	0.729	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez
 Analyzed By: JH

SampleID: FL 3 @ 18' (H252161-03)**BTEX 8021B****mg/kg**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.17	108	2.00	1.09	
Toluene*	<0.050	0.050	04/14/2025	ND	2.25	113	2.00	1.53	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.11	105	2.00	2.25	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.35	106	6.00	2.29	
Total BTEX	<0.300	0.300	04/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B**mg/kg**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/11/2025	ND	416	104	400	0.00	

TPH 8015M**mg/kg**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2025	ND	189	94.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	185	92.3	200	0.729	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez
 Analyzed By: JH

SampleID: NW 1 (H252161-04)**BTEX 8021B****mg/kg**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.17	108	2.00	1.09	
Toluene*	<0.050	0.050	04/14/2025	ND	2.25	113	2.00	1.53	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.11	105	2.00	2.25	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.35	106	6.00	2.29	
Total BTEX	<0.300	0.300	04/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B**mg/kg**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/11/2025	ND	416	104	400	0.00	

TPH 8015M**mg/kg**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2025	ND	189	94.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	185	92.3	200	0.729	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez
 Analyzed By: JH

SampleID: EW 1 (H252161-05)**BTEX 8021B****mg/kg**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.17	108	2.00	1.09	
Toluene*	<0.050	0.050	04/14/2025	ND	2.25	113	2.00	1.53	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.11	105	2.00	2.25	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.35	106	6.00	2.29	
Total BTEX	<0.300	0.300	04/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B**mg/kg**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/11/2025	ND	416	104	400	0.00	

TPH 8015M**mg/kg**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2025	ND	189	94.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	185	92.3	200	0.729	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.9 % 40.6-153

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Robbie Runnels				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M) added 4/14/25</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 West Marland				Company: Permian Resources																									
City: Hobbs State: NM Zip: 88240				Attn: Montgomery Floyd																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 21762 Project Owner: Permian Resources				City:																									
Project Name: Queso Blanco CTB 1				State: Zip:																									
Project Location: 32.384497, -103.432012				Phone #:																									
Sampler Name: Martin Sepulveda				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	
H252161				C		1						X								X						4/10/25			
1		FL 1 @ 14'		C		1						X								X						4/10/25			
2		FL 2 @ 17'		C		1						X								X						4/10/25			
3		FL 3 @ 18'		C		1						X								X						4/10/25			
4		NW 1		C		1						X								X						4/10/25			
5		EW 1		C		1						X								X						4/10/25			

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Relinquished By:		Date: 4/11/25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: 0821		Received By:		All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
Relinquished By:		Time:		Received By:		Run Chloride first, and hold BTEX and TPH. If Chloride result is less than 600 mg/kg, then run BTEX and TPH for that sample.	
Delivered By: (Circle One)		Observed Temp. °C -5.8		Sample Condition Cool Intact		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -5.5		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
				CHECKED BY: (Initials) 82		Thermometer ID #140 Correction Factor -0.6°C 10.3	
						Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

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

April 25, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: QUESO BLANCO CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 04/15/25 16:55.

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

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS NM, 88240

Project: QUESO BLANCO CTB 1
Project Number: 21762
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
25-Apr-25 16:52

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 1	H252262-01	Soil	14-Apr-25 16:30	15-Apr-25 16:55
SW - 2	H252262-02	Soil	14-Apr-25 16:30	15-Apr-25 16:55
SW - 3	H252262-03	Soil	14-Apr-25 16:30	15-Apr-25 16:55

04/24/25 - Client added BTEX and TPH (see COC). This is the revised report and will replace the one sent on 04/16/25.

04/25/25 - Client changed the project name (see COC). This is the 2nd revision of the report and will replace the one sent on 04/24/25.

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

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS NM, 88240

Project: QUESO BLANCO CTB 1
Project Number: 21762
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
25-Apr-25 16:52

SW - 1**H252262-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	5041618	CT	16-Apr-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	5042304	JH	23-Apr-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5042304	JH	23-Apr-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5042304	JH	23-Apr-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5042304	JH	23-Apr-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5042304	JH	23-Apr-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		108 %		71.5-134	5042304	JH	23-Apr-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5042236	MS	23-Apr-25	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5042236	MS	23-Apr-25	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5042236	MS	23-Apr-25	8015B	

Surrogate: 1-Chlorooctane		81.4 %		44.4-145	5042236	MS	23-Apr-25	8015B	
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Surrogate: 1-Chlorooctadecane		74.1 %		40.6-153	5042236	MS	23-Apr-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS NM, 88240

Project: QUESO BLANCO CTB 1
Project Number: 21762
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
25-Apr-25 16:52

SW - 2**H252262-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	5041618	CT	16-Apr-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5042304	JH	23-Apr-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5042304	JH	23-Apr-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5042304	JH	23-Apr-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5042304	JH	23-Apr-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5042304	JH	23-Apr-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %		71.5-134	5042304	JH	23-Apr-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5042236	MS	23-Apr-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5042236	MS	23-Apr-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5042236	MS	23-Apr-25	8015B	

Surrogate: 1-Chlorooctane			90.1 %		44.4-145	5042236	MS	23-Apr-25	8015B	
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Surrogate: 1-Chlorooctadecane			81.6 %		40.6-153	5042236	MS	23-Apr-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS NM, 88240

Project: QUESO BLANCO CTB 1
Project Number: 21762
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
25-Apr-25 16:52

SW - 3**H252262-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	5041618	CT	16-Apr-25	4500-Cl-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5042304	JH	23-Apr-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5042304	JH	23-Apr-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5042304	JH	23-Apr-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5042304	JH	23-Apr-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5042304	JH	23-Apr-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			118 %	71.5-134		5042304	JH	23-Apr-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5042236	MS	23-Apr-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5042236	MS	23-Apr-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5042236	MS	23-Apr-25	8015B	
Surrogate: 1-Chlorooctane			88.1 %	44.4-145		5042236	MS	23-Apr-25	8015B	
Surrogate: 1-Chlorooctadecane			82.5 %	40.6-153		5042236	MS	23-Apr-25	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS NM, 88240

Project: QUESO BLANCO CTB 1
Project Number: 21762
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
25-Apr-25 16:52

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 5041618 - 1:4 DI Water									
Blank (5041618-BLK1)					Prepared & Analyzed: 16-Apr-25				
Chloride	ND	16.0	mg/kg						
LCS (5041618-BS1)					Prepared & Analyzed: 16-Apr-25				
Chloride	448	16.0	mg/kg	400		112	80-120		
LCS Dup (5041618-BSD1)					Prepared & Analyzed: 16-Apr-25				
Chloride	448	16.0	mg/kg	400		112	80-120	0.00	20

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS NM, 88240

Project: QUESO BLANCO CTB 1
Project Number: 21762
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
25-Apr-25 16:52

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5042304 - Volatiles**Blank (5042304-BLK1)**

Prepared & Analyzed: 23-Apr-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0524		mg/kg	0.0500		105	71.5-134			

LCS (5042304-BS1)

Prepared & Analyzed: 23-Apr-25

Benzene	2.27	0.050	mg/kg	2.00		113	82.8-130			
Toluene	2.15	0.050	mg/kg	2.00		108	86-128			
Ethylbenzene	2.17	0.050	mg/kg	2.00		108	85.9-128			
m,p-Xylene	4.48	0.100	mg/kg	4.00		112	89-129			
o-Xylene	2.25	0.050	mg/kg	2.00		113	86.1-125			
Total Xylenes	6.74	0.150	mg/kg	6.00		112	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0484		mg/kg	0.0500		96.8	71.5-134			

LCS Dup (5042304-BSD1)

Prepared & Analyzed: 23-Apr-25

Benzene	2.12	0.050	mg/kg	2.00		106	82.8-130	6.75	15.8	
Toluene	2.02	0.050	mg/kg	2.00		101	86-128	6.36	15.9	
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	85.9-128	7.43	16	
m,p-Xylene	4.13	0.100	mg/kg	4.00		103	89-129	8.21	16.2	
o-Xylene	2.07	0.050	mg/kg	2.00		104	86.1-125	8.46	16.7	
Total Xylenes	6.20	0.150	mg/kg	6.00		103	88.2-128	8.29	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0480		mg/kg	0.0500		95.9	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS NM, 88240

Project: QUESO BLANCO CTB 1
Project Number: 21762
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
25-Apr-25 16:52

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 5042236 - General Prep - Organics**Blank (5042236-BLK1)**

Prepared: 22-Apr-25 Analyzed: 23-Apr-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		99.0	44.4-145		
Surrogate: 1-Chlorooctadecane	47.1		mg/kg	50.0		94.2	40.6-153		

LCS (5042236-BS1)

Prepared: 22-Apr-25 Analyzed: 23-Apr-25

GRO C6-C10	232	10.0	mg/kg	200		116	81.5-123		
DRO >C10-C28	223	10.0	mg/kg	200		111	77.7-122		
Total TPH C6-C28	455	10.0	mg/kg	400		114	80.9-121		
Surrogate: 1-Chlorooctane	55.0		mg/kg	50.0		110	44.4-145		
Surrogate: 1-Chlorooctadecane	52.6		mg/kg	50.0		105	40.6-153		

LCS Dup (5042236-BS1)

Prepared: 22-Apr-25 Analyzed: 23-Apr-25

GRO C6-C10	215	10.0	mg/kg	200		108	81.5-123	7.33	13
DRO >C10-C28	203	10.0	mg/kg	200		102	77.7-122	9.21	15.6
Total TPH C6-C28	419	10.0	mg/kg	400		105	80.9-121	8.24	18.5
Surrogate: 1-Chlorooctane	50.2		mg/kg	50.0		100	44.4-145		
Surrogate: 1-Chlorooctadecane	48.8		mg/kg	50.0		97.6	40.6-153		

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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 cursive script, appearing to read "Celey D. Keene", written in black ink.


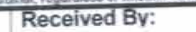
Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: 		Date: 4-15-25	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: pm@etechnv.com
Delivered By: (Circle One)		Observed Temp. °C 20.2	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>	REMARKS: * added per client
Sampler UPS - Bus - Other:		Corrected Temp. °C 29.2	Checked By: (Initials) PP	** Cust. Requested Name changes to: 4/24/25
			Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/>
			Thermometer ID #140	<input type="checkbox"/> Yes <input type="checkbox"/> Yes
			Correction Factor -0.6°C	<input type="checkbox"/> No <input type="checkbox"/> No
				Corrected Temp. °C



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

May 02, 2025

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: QUESO BLANCO CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 04/28/25 14:59.

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

Cardinal Laboratories is 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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 4 @ 19' (H252545-01)

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	04/29/2025	ND	2.23	112	2.00	4.06	
Toluene*	<0.050	0.050	04/29/2025	ND	2.35	118	2.00	4.05	
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.49	124	2.00	4.54	
Total Xylenes*	<0.150	0.150	04/29/2025	ND	7.60	127	6.00	4.96	
Total BTX	<0.300	0.300	04/29/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 96.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.1 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 5 @ 18' (H252545-02)

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	04/29/2025	ND	2.23	112	2.00	4.06		
Toluene*	<0.050	0.050	04/29/2025	ND	2.35	118	2.00	4.05		
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.49	124	2.00	4.54		
Total Xylenes*	<0.150	0.150	04/29/2025	ND	7.60	127	6.00	4.96		
Total BTEx	<0.300	0.300	04/29/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.5 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 6 @ 14' (H252545-03)

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	04/29/2025	ND	2.23	112	2.00	4.06		
Toluene*	<0.050	0.050	04/29/2025	ND	2.35	118	2.00	4.05		
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.49	124	2.00	4.54		
Total Xylenes*	<0.150	0.150	04/29/2025	ND	7.60	127	6.00	4.96		
Total BTX	<0.300	0.300	04/29/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.5 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 7 @ 14' (H252545-04)

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	04/30/2025	ND	2.18	109	2.00	0.917	
Toluene*	<0.050	0.050	04/30/2025	ND	2.10	105	2.00	2.10	
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	1.20	
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.35	106	6.00	0.122	
Total BTX	<0.300	0.300	04/30/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.6 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 8 @ 10' (H252545-05)

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	04/30/2025	ND	2.18	109	2.00	0.917	
Toluene*	<0.050	0.050	04/30/2025	ND	2.10	105	2.00	2.10	
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	1.20	
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.35	106	6.00	0.122	
Total BTX	<0.300	0.300	04/30/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.6 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 9 @ 10' (H252545-06)

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	04/30/2025	ND	2.18	109	2.00	0.917	
Toluene*	<0.050	0.050	04/30/2025	ND	2.10	105	2.00	2.10	
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	1.20	
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.35	106	6.00	0.122	
Total BTX	<0.300	0.300	04/30/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.8 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 10 @ 16' (H252545-07)

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	04/30/2025	ND	2.18	109	2.00	0.917	
Toluene*	<0.050	0.050	04/30/2025	ND	2.10	105	2.00	2.10	
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	1.20	
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.35	106	6.00	0.122	
Total BTX	<0.300	0.300	04/30/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 96.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.2 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 11 @ 14' (H252545-08)

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	04/30/2025	ND	2.18	109	2.00	0.917		
Toluene*	<0.050	0.050	04/30/2025	ND	2.10	105	2.00	2.10		
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	1.20		
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.35	106	6.00	0.122		
Total BTEx	<0.300	0.300	04/30/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.5 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 3 (H252545-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2025	ND	2.18	109	2.00	0.917		
Toluene*	<0.050	0.050	04/30/2025	ND	2.10	105	2.00	2.10		
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	1.20		
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.35	106	6.00	0.122		
Total BTX	<0.300	0.300	04/30/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.5 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 5 (H252545-10)

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	04/30/2025	ND	2.18	109	2.00	0.917	
Toluene*	<0.050	0.050	04/30/2025	ND	2.10	105	2.00	2.10	
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	1.20	
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.35	106	6.00	0.122	
Total BTEX	<0.300	0.300	04/30/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.8 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 4 (H252545-11)

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	04/30/2025	ND	2.18	109	2.00	0.917		
Toluene*	<0.050	0.050	04/30/2025	ND	2.10	105	2.00	2.10		
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	1.20		
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.35	106	6.00	0.122		
Total BTX	<0.300	0.300	04/30/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 72.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.6 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 1 (H252545-12)

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	04/30/2025	ND	2.18	109	2.00	0.917		
Toluene*	<0.050	0.050	04/30/2025	ND	2.10	105	2.00	2.10		
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	1.20		
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.35	106	6.00	0.122		
Total BTX	<0.300	0.300	04/30/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 73.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.7 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 2 (H252545-13)

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	04/30/2025	ND	2.18	109	2.00	0.917		
Toluene*	<0.050	0.050	04/30/2025	ND	2.10	105	2.00	2.10		
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	1.20		
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.35	106	6.00	0.122		
Total BTX	<0.300	0.300	04/30/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 95.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.9 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/28/2025
 Reported: 05/02/2025
 Project Name: QUESO BLANCO CTB 1
 Project Number: 21762
 Project Location: PERMIAN 32.384497-103.432012

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 3 (H252545-14)

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	04/30/2025	ND	2.18	109	2.00	0.917	
Toluene*	<0.050	0.050	04/30/2025	ND	2.10	105	2.00	2.10	
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.08	104	2.00	1.20	
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.35	106	6.00	0.122	
Total BTX	<0.300	0.300	04/30/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/29/2025	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	04/29/2025	ND	195	97.3	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/29/2025	ND	209	104	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/29/2025	ND					

Surrogate: 1-Chlorooctane 78.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.2 % 40.6-153

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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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

Page 1 of 2

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: Joel Lowry				P.O. #:				Chloride	TPH (8015M)	BTEX (8021B)											
Address: 2617 West Marland				Company: Permian Resources																	
City: Hobbs State: NM Zip: 88240				Attn: Montgomery Floyd																	
Phone #: (575) 264-9884 Fax #:				Address:																	
Project #: 21762 Project Owner: Permian Resources				City:																	
Project Name: Queso Blanco CTB 1				State: Zip:																	
Project Location: 32.384497, -103.432012				Phone #:																	
Sampler Name: Martin Sepulveda				Fax #:																	
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING											
Lab I.D.	Sample I.D.	(G)IRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME							
Hasas45																					
1	FL 4 @ 19'	C	1			X					X		4/25/25		X	X	X				
2	FL 5 @ 18'	C	1			X					X		4/25/25		X	X	X				
3	FL 6 @ 14'	C	1			X					X		4/25/25		X	X	X				
4	FL 7 @ 14'	C	1			X					X		4/25/25		X	X	X				
5	FL 8 @ 10'	C	1			X					X		4/25/25		X	X	X				
6	FL 9 @ 10'	C	1			X					X		4/25/25		X	X	X				
7	FL 10 @ 16'	C	1			X					X		4/25/25		X	X	X				
8	FL 11 @ 14'	C	1			X					X		4/25/25		X	X	X				
9	NW 3	C	1			X					X		4/25/25		X	X	X				
12	NW 5	C	1			X					X		4/25/25		X	X	X				

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Relinquished By: <i>M. H.</i>		Date: <i>4-28-25</i> Time: <i>1459</i>		Received By: <i>S. Rodriguez</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date: Time:		Received By:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: <i>-6.1</i> Corrected Temp. °C: <i>-5.8</i>		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: (Initials) <i>SR</i>	
				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	
				Thermometer ID #140 Correction Factor <i>-0.5</i> °C		<i>+0.3</i>	

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Page 2 of 2

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Relinquished By: <i>Matt</i>		Date: <i>4-28-20</i> Time: <i>1459</i>		Received By: <i>S. L. K. Rigney</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date: Time:		Received By:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C <i>-6.1</i> Corrected Temp. °C <i>-5.8</i>		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: (Initials) <i>SL</i>	
				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	
				Thermometer ID #140 Correction Factor <i>-0.6</i> +0.3			



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

May 01, 2025

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: QUESO BLANCO CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 04/30/25 14:57.

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

Cardinal Laboratories is 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, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	04/30/2025	Sampling Date:	04/28/2025
Reported:	05/01/2025	Sampling Type:	Soil
Project Name:	QUESO BLANCO CTB 1	Sampling Condition:	Cool & Intact
Project Number:	21762	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.384497-103.432012		

Sample ID: FL 12 @ 19' (H252590-01)

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	04/30/2025	ND	2.02	101	2.00	0.328	
Toluene*	<0.050	0.050	04/30/2025	ND	2.12	106	2.00	0.930	
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.13	106	2.00	1.42	
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.73	112	6.00	1.12	
Total BTX	<0.300	0.300	04/30/2025	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CT				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/01/2025	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2025	ND	182	91.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	04/30/2025	ND	199	99.6	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	04/30/2025	ND					

Surrogate: 1-Chlorooctane 75.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.5 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	04/30/2025	Sampling Date:	04/28/2025
Reported:	05/01/2025	Sampling Type:	Soil
Project Name:	QUESO BLANCO CTB 1	Sampling Condition:	Cool & Intact
Project Number:	21762	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.384497-103.432012		

Sample ID: FL 13 @ 10' (H252590-02)

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	04/30/2025	ND	2.02	101	2.00	0.328		
Toluene*	<0.050	0.050	04/30/2025	ND	2.12	106	2.00	0.930		
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.13	106	2.00	1.42		
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.73	112	6.00	1.12		
Total BTX	<0.300	0.300	04/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/01/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2025	ND	182	91.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	04/30/2025	ND	199	99.6	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	04/30/2025	ND					

Surrogate: 1-Chlorooctane 78.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.2 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	04/30/2025	Sampling Date:	04/28/2025
Reported:	05/01/2025	Sampling Type:	Soil
Project Name:	QUESO BLANCO CTB 1	Sampling Condition:	Cool & Intact
Project Number:	21762	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.384497-103.432012		

Sample ID: NW 2 (H252590-03)

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	04/30/2025	ND	2.02	101	2.00	0.328	
Toluene*	<0.050	0.050	04/30/2025	ND	2.12	106	2.00	0.930	
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.13	106	2.00	1.42	
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.73	112	6.00	1.12	
Total BTEX	<0.300	0.300	04/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/01/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2025	ND	182	91.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	199	99.6	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 77.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.7 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	04/30/2025	Sampling Date:	04/28/2025
Reported:	05/01/2025	Sampling Type:	Soil
Project Name:	QUESO BLANCO CTB 1	Sampling Condition:	Cool & Intact
Project Number:	21762	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.384497-103.432012		

Sample ID: NW 4 (H252590-04)

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	04/30/2025	ND	2.02	101	2.00	0.328	
Toluene*	<0.050	0.050	04/30/2025	ND	2.12	106	2.00	0.930	
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.13	106	2.00	1.42	
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.73	112	6.00	1.12	
Total BTEX	<0.300	0.300	04/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/01/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2025	ND	182	91.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	04/30/2025	ND	199	99.6	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	04/30/2025	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.4 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	04/30/2025	Sampling Date:	04/28/2025
Reported:	05/01/2025	Sampling Type:	Soil
Project Name:	QUESO BLANCO CTB 1	Sampling Condition:	Cool & Intact
Project Number:	21762	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.384497-103.432012		

Sample ID: NW 6 (H252590-05)

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	04/30/2025	ND	2.02	101	2.00	0.328	
Toluene*	<0.050	0.050	04/30/2025	ND	2.12	106	2.00	0.930	
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.13	106	2.00	1.42	
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.73	112	6.00	1.12	
Total BTEx	<0.300	0.300	04/30/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/01/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2025	ND	182	91.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	04/30/2025	ND	199	99.6	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	04/30/2025	ND					

Surrogate: 1-Chlorooctane 66.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 57.3 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	04/30/2025	Sampling Date:	04/28/2025
Reported:	05/01/2025	Sampling Type:	Soil
Project Name:	QUESO BLANCO CTB 1	Sampling Condition:	Cool & Intact
Project Number:	21762	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.384497-103.432012		

Sample ID: SW 5 (H252590-06)

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	04/30/2025	ND	2.02	101	2.00	0.328		
Toluene*	<0.050	0.050	04/30/2025	ND	2.12	106	2.00	0.930		
Ethylbenzene*	<0.050	0.050	04/30/2025	ND	2.13	106	2.00	1.42		
Total Xylenes*	<0.150	0.150	04/30/2025	ND	6.73	112	6.00	1.12		
Total BTEX	<0.300	0.300	04/30/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/01/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2025	ND	182	91.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	199	99.6	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 79.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.0 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For 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

Page 1 of 1

Page 9 of 9

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 West Marland				Company: Permian Resources																									
City: Hobbs		State: NM Zip: 88240		Attn: Montgomery Floyd																									
Phone #: (575) 264-9884		Fax #:		Address:																									
Project #: 21762		Project Owner: Permian Resources		City:																									
Project Name: Queso Blanco CTB 1				State: Zip:																									
Project Location: 32.384497, -103.432012				Phone #:																									
Sampler Name: Robbie Runnels				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING																	
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
H262590		FL 12 @ 19'		C	1			X					X		4/28/25		X	X	X										
32		FL 13 @ 10'		C	1			X					X		4/28/25		X	X	X										
4		NW 2		C	1			X					X		4/28/25		X	X	X										
5		NW 4		C	1			X					X		4/28/25		X	X	X										
6		NW 6		C	1			X					X		4/28/25		X	X	X										
		SW 5		C	1			X					X		4/28/25		X	X	X										

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Relinquished By: <i>Matt</i>		Date: 4-30-25		Received By: <i>Ap...</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 1457		Time:		Time:		All Results are emailed. Please provide Email address: pm@etechenv.com			
Relinquished By:		Date:		Received By:		REMARKS:			
						24H Rush			
Delivered By: (Circle One)		Observed Temp. °C -0.9		Sample Condition Cool Intact		CHECKED BY: (Initials)		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -0.6		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140 Correction Factor -0.6°C @ -32		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	



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

May 21, 2025

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MERCHANT SAN SIMONE CALICHE PIT

Enclosed are the results of analyses for samples received by the laboratory on 05/15/25 15:07.

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

Cardinal Laboratories is 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
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/15/2025	Sampling Date:	05/15/2025
Reported:	05/21/2025	Sampling Type:	Soil
Project Name:	MERCHANT SAN SIMONE CALICHE PIT	Sampling Condition:	Cool & Intact
Project Number:	21762	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: CALICHE PIT (H252954-01)

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	05/17/2025	ND	2.16	108	2.00	0.228	
Toluene*	<0.050	0.050	05/17/2025	ND	2.22	111	2.00	0.463	
Ethylbenzene*	<0.050	0.050	05/17/2025	ND	2.17	109	2.00	0.279	
Total Xylenes*	<0.150	0.150	05/17/2025	ND	6.42	107	6.00	0.167	
Total BTX	<0.300	0.300	05/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	480	16.0	05/17/2025	ND	480	120	400	18.2	

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	05/16/2025	ND	194	97.1	200	1.92	
DRO >C10-C28*	<10.0	10.0	05/16/2025	ND	183	91.6	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	05/16/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.0 % 40.6-153

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

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

Page 1 of 1

[illegible]

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Relinquished By: <i>Matt Ma</i>		Date: <i>5.15.95</i>		Received By: <i>Apurva</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <i>1507</i>				All Results are emailed. Please provide Email address: pm@etechnv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C <i>-5.02</i>		Sample Condition Cool Intact		CHECKED BY: (Initials) <i>PA</i>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <i>-4.71</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: <i>APR 15 95</i> Thermometer ID #140 Correction Factor <i>-0.6°C + 0.3</i>	
						Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	



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

May 21, 2025

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MERCHANT JALAPENO TOPSOIL PIT

Enclosed are the results of analyses for samples received by the laboratory on 05/15/25 15:07.

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

Cardinal Laboratories is 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
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/15/2025	Sampling Date:	05/15/2025
Reported:	05/21/2025	Sampling Type:	Soil
Project Name:	MERCHANT JALAPENO TOPSOIL PIT	Sampling Condition:	Cool & Intact
Project Number:	21762	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: TOPSOIL PIT (H252953-01)

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	05/17/2025	ND	2.16	108	2.00	0.228		
Toluene*	<0.050	0.050	05/17/2025	ND	2.22	111	2.00	0.463		
Ethylbenzene*	<0.050	0.050	05/17/2025	ND	2.17	109	2.00	0.279		
Total Xylenes*	<0.150	0.150	05/17/2025	ND	6.42	107	6.00	0.167		
Total BTX	<0.300	0.300	05/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	05/17/2025	ND	480	120	400	18.2		

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	05/16/2025	ND	194	97.1	200	1.92	
DRO >C10-C28*	<10.0	10.0	05/16/2025	ND	183	91.6	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	05/16/2025	ND					

Surrogate: 1-Chlorooctane 80.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.5 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Page 4 of 4

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Robbie Runnels				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 West Marland				Company: Etech																									
City: Hobbs State: NM Zip: 88240				Attn: Robbie Runnels																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 21762 Project Owner: Merchant Livestock				City:																									
Project Name: Merchant Jalapeno Topsoil Pit				State: Zip:																									
Project Location:				Phone #:																									
Sampler Name: Robbie Runnels				Fax #:																									
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING													
										GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME													
1858953		Topsoil Pit		C		1		X				X		5/15/25				X X X											

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: 5-15-25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 1:57				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY:	
Cool Intact		-5.0		Cool Intact		(Initials)	
<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No		AP	
Sampler - UPS - Bus - Other:		Corrected Temp. °C				Turnaround Time:	
		-4.7				Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
						Bacteria (only) Sample Condition	
						Cool Intact Observed Temp. °C	
						<input type="checkbox"/> Yes <input type="checkbox"/> No	
						<input type="checkbox"/> Yes <input type="checkbox"/> No	
						Thermometer ID #140	
						Correction Factor -0.6°C	

Appendix E

Regulatory Correspondence

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	449512	Districts:	Hobbs
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Lea
Description:	Permian Resources Operating, LLC [372165] , Queso Blanco CTB 1 , nAPP2423950632		
Status:	APPROVED		
Status Date:	04/08/2025		
References (1):	nAPP2423950632		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2423950632
Incident Name	NAPP2423950632 QUESO BLANCO CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source

Site Name	Queso Blanco CTB 1
Date Release Discovered	08/26/2024
Surface Owner	Private

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/16/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Sampler – Martin Sepulveda 432-305-7322
Please provide any information necessary for navigation to sampling site	Driving Directions - From the intersection of San Simon Rd and Sasimo (32.400210, -103.435756), head S on 1.10 mi, then E for 0.45 mi, then N for 0.02 mi to arrive at the Queso Blanco CTB 1 release area (32.384590, -

Comments

No comments found for this submission.

Conditions

Summary: mtaylorpr (4/8/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	449508	Districts:	Hobbs
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Lea
Description:	Permian Resources Operating, LLC [372165] , Queso Blanco CTB 1 , nAPP2423950632		
Status:	APPROVED		
Status Date:	04/08/2025		
References (1):	nAPP2423950632		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2423950632
Incident Name	NAPP2423950632 QUESO BLANCO CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source

Site Name	Queso Blanco CTB 1
Date Release Discovered	08/26/2024
Surface Owner	Private

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/14/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Sampler – Martin Sepulveda 432-305-7322
Please provide any information necessary for navigation to sampling site	Driving Directions - From the intersection of San Simon Rd and Sasimo (32.400210, -103.435756), t 1.10 mi, then E for 0.45 mi, then N for 0.02 mi to arrive at the Queso Blanco CTB 1 release area (32.304390, -

Comments

No comments found for this submission.

Conditions

Summary: mtaylorpr (4/8/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	449506	Districts:	Hobbs
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Lea
Description:	Permian Resources Operating, LLC [372165] , Queso Blanco CTB 1 , nAPP2423950632		
Status:	APPROVED		
Status Date:	04/08/2025		
References (1):	nAPP2423950632		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2423950632
Incident Name	NAPP2423950632 QUESO BLANCO CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source

Site Name	Queso Blanco CTB 1
Date Release Discovered	08/26/2024
Surface Owner	Private

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/10/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Sampler – Martin Sepulveda 432-305-7322
Please provide any information necessary for navigation to sampling site	Driving Directions - From the intersection of San Simon Rd and Sasimo (32.400210, -103.435756), t 1.10 mi, then E for 0.45 mi, then N for 0.02 mi to arrive at the Queso Blanco CTB 1 release area (32.304390, -

Comments

No comments found for this submission.

Conditions

Summary: mtaylorpr (4/8/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	454453	Districts:	Hobbs
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Lea
Description:	Permian Resources Operating, LLC [372165] , Queso Blanco CTB 1 , nAPP2423950632		
Status:	APPROVED		
Status Date:	04/22/2025		
References (1):	nAPP2423950632		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2423950632
Incident Name	NAPP2423950632 QUESO BLANCO CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source

Site Name	Queso Blanco CTB 1
Date Release Discovered	08/26/2024
Surface Owner	Private

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/02/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Martin Sepulveda 432-305-7322
Please provide any information necessary for navigation to sampling site	Driving Directions - From the intersection of San Simon Rd and Sasimo (32.400210, -103.435756), travel 1.10 mi, then E for 0.45 mi, then N for 0.02 mi to arrive at the Queso Blanco CTB 1 release area (32.364390, -

Comments

No comments found for this submission.

Conditions

Summary: mtaylorpr (4/22/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	454450	Districts:	Hobbs
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Lea
Description:	Permian Resources Operating, LLC [372165] , Queso Blanco CTB 1 , nAPP2423950632		
Status:	APPROVED		
Status Date:	04/22/2025		
References (1):	nAPP2423950632		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2423950632
Incident Name	NAPP2423950632 QUESO BLANCO CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source

Site Name	Queso Blanco CTB 1
Date Release Discovered	08/26/2024
Surface Owner	Private

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/30/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Martin Sepulveda 432-305-7322
Please provide any information necessary for navigation to sampling site	Driving Directions - From the intersection of San Simon Rd and Sasimo (32.400210, -103.435756), t 1.10 mi, then E for 0.45 mi, then N for 0.02 mi to arrive at the Queso Blanco CTB 1 release area (32.304390, -

Comments

No comments found for this submission.

Conditions

Summary: mtaylorpr (4/22/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	454448	Districts:	Hobbs
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Lea
Description:	Permian Resources Operating, LLC [372165] , Queso Blanco CTB 1 , nAPP2423950632		
Status:	APPROVED		
Status Date:	04/22/2025		
References (1):	nAPP2423950632		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2423950632
Incident Name	NAPP2423950632 QUESO BLANCO CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source

Site Name	Queso Blanco CTB 1
Date Release Discovered	08/26/2024
Surface Owner	Private

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/28/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Martin Sepulveda 432-305-7322
Please provide any information necessary for navigation to sampling site	Driving Directions - From the intersection of San Simon Rd and Sasimo (32.400210, -103.435756), travel S on San Simon Rd for 1.10 mi, then E for 0.45 mi, then N for 0.02 mi to arrive at the Queso Blanco CTB 1 release area (32.364390, -

Comments

No comments found for this submission.

Conditions

Summary: mtaylorpr (4/22/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	454444	Districts:	Hobbs
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Lea
Description:	Permian Resources Operating, LLC [372165] , Queso Blanco CTB 1 , nAPP2423950632		
Status:	APPROVED		
Status Date:	04/22/2025		
References (1):	nAPP2423950632		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2423950632
Incident Name	NAPP2423950632 QUESO BLANCO CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source

Site Name	Queso Blanco CTB 1
Date Release Discovered	08/26/2024
Surface Owner	Private

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/25/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Martin Sepulveda 432-305-7322
Please provide any information necessary for navigation to sampling site	Driving Directions - From the intersection of San Simon Rd and Sasimo (32.400210, -103.435756), t 1.10 mi, then E for 0.45 mi, then N for 0.02 mi to arrive at the Queso Blanco CTB 1 release area (32.304390, -

Comments

No comments found for this submission.

Conditions

Summary: mtaylorpr (4/22/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	449514	Districts:	Hobbs
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Lea
Description:	Permian Resources Operating, LLC [372165] , Queso Blanco CTB 1 , nAPP2423950632		
Status:	APPROVED		
Status Date:	04/08/2025		
References (1):	nAPP2423950632		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2423950632
Incident Name	NAPP2423950632 QUESO BLANCO CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source

Site Name	Queso Blanco CTB 1
Date Release Discovered	08/26/2024
Surface Owner	Private

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/18/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Sampler – Martin Sepulveda 432-305-7322
Please provide any information necessary for navigation to sampling site	Driving Directions - From the intersection of San Simon Rd and Sasimo (32.400210, -103.435756), t 1.10 mi, then E for 0.45 mi, then N for 0.02 mi to arrive at the Queso Blanco CTB 1 release area (32.304390, -

Comments

No comments found for this submission.

Conditions

Summary: mtaylorpr (4/8/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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

QUESTIONS

Action 480274

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 480274
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2423950632
Incident Name	NAPP2423950632 QUESO BLANCO CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Queso Blanco CTB 1
Date Release Discovered	08/26/2024
Surface Owner	Private

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Normal Operations Pipeline (Any) Produced Water Released: 19 BBL Recovered: 0 BBL Lost: 19 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 480274

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 480274
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 08/26/2024
--	--

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Phone: (505) 476-3441

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

QUESTIONS, Page 3

Action 480274

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 480274
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	448
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	30
GRO+DRO (EPA SW-846 Method 8015M)	20
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	04/08/2025
On what date will (or did) the final sampling or liner inspection occur	04/28/2025
On what date will (or was) the remediation complete(d)	05/14/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	2070
What is the estimated volume (in cubic yards) that will be remediated	1444
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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State of New Mexico
Energy, Minerals and Natural Resources
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QUESTIONS, Page 4

Action 480274

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 480274
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [JEG1635837366]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 06/30/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Energy, Minerals and Natural Resources
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QUESTIONS, Page 5

Action 480274

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 480274
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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General Information
Phone: (505) 629-6116

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

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Action 480274

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 480274
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	454453
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/02/2025
What was the (estimated) number of samples that were to be gathered	15
What was the sampling surface area in square feet	1500

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2070
What was the total volume (cubic yards) remediated	1444
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2070
What was the total volume (in cubic yards) reclaimed	1444
Summarize any additional remediation activities not included by answers (above)	All remediation activities have been completed at site.
<p><i>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 (in .pdf format) 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.</i></p>	
<p>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.</p>	
I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 06/30/2025

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Action 480274

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 480274
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	2070
What was the total volume of replacement material (in cubic yards) for this site	1444
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	07/21/2025
Summarize any additional reclamation activities not included by answers (above)	All reclamation activities have been completed at the site.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 06/30/2025

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Action 480274

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 480274
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 480274

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 480274
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	8/5/2025