Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2202537169
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	125 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☑ Yes ☐ No

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

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

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

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

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Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2202537169
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Charles Beauvais Title: Sr. Environmental Engineer

Signature: Date: 7/27/2022

email: Charles.R.Beauvais@ConocoPhillips.com Telephone: (575) 988-2043

OCD Only

Received by: Jocelyn Harimon Date: 08/01/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2202537169
District RP	
Facility ID	
Application ID	

Closure

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

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

☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☑ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☑ Description of remediation activities

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

Printed Name: Charles Beauvais Title: Sr. Environmental Engineer

Signature: Charles R. Beauvais II Date: 7/27/2022

email: Charles.R.Beauvais@ConocoPhillips.com Telephone: (575) 988-2043

OCD Only

Received by: Jocelyn Harimon Date: 08/01/2022

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

Closure Approved by: Jennifer Nobui Date: 08/03/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

Remediation Summary & Soil Closure Request

ConocoPhillips Company
Little Bear Federal 33M CTB
Lea County, New Mexico
Unit Letter "M", Section 33, Township 20 South, Range 34 East
Latitude 32.52499 North, Longitude 103.57015 West
NMOCD Reference No. nAPP2202537169

Prepared By:

Etech Environmental & Safety Solutions, Inc.
2507 79th Street, Unit A
Lubbock, Texas 79423

Ben J. Arguijo

Joel W. Lowry

ETECH Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of ConocoPhillips Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Little Bear Federal 33M CTB (henceforth, "Little Bear 33M"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.52499 Longitude: -103.570150

Provided GPS are in WGS84 format.

Site Name:	Little Bear Federal 33M CTB	Site Type:	Tank Battery
Date Release Discovered:	1/14/2022	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
"M"	33	20S	34E	Lea

Surface Owner: [ ] State [X] Federal [ ] Tribal [ ] Private (Name _____)

Nature and Volume of Release

[X] Crude Oil	Volume Released (bbls) 0.017	Volume Recovered (bbls) 0
[ ] Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	[ ] Yes [ ] No [ ] N/A
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:
The release was caused by human error. While bleeding pressure off the heater, the low pressure flare back pressure valve was cracked open. Fluid was sitting in the line unknowingly and was sent down the flare line. 0.017 bbls of oil burned on the ground on-pad outside the containment.

Initial Response

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

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

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Little Bear 33M release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	125'
Did the release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production or storage site?	☒ Yes ☐ No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Little Bear 33M release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
125'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 INITIAL SITE ASSESSMENT

On April 11, 2022, Etech conducted an initial site assessment. During the initial site assessment, three (3) hand-augered soil bores (V1, V2, and V3) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, four (4) hand-augered soil bores (NH, EH, SH, and WH) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, a total of 14 confirmation soil samples (NH @ 0', NH @ 1', EH @ 0', EH @ 1', SH @ 0', SH @ 1', WH @ 0', WH @ 1', V1 @ 0', V1 @ 1', V2 @ 0', V2 @ 1', V3 @ 0', and V3 @ 1') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal and vertical extent of impacted soil was adequately defined, and soil was not affected above the NMOCD Closure Criteria beyond one (1) foot below ground surface (bgs) in the areas characterized by sample points V1, V2, and V3.

5.0 REMEDIATION ACTIVITIES SUMMARY

On April 27, 2022, remediation activities commenced at the release 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 vertical and horizontal 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

Etech collected six (6) confirmation soil samples (NSW, ESW, SSW, WSW, F1 @ 1.5', and F2 @ 1.5') from the sidewalls and floor of the excavated area based on a 200-square-foot grid. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 16.0 mg/kg in soil samples ESW and WSW to 32.0 mg/kg in soil samples NSW, SSW, F1 @ 1.5', and F2 @ 1.5'.

The final dimensions of the excavated area were approximately 15 feet in length, 14 feet in width, and 1.5 feet in depth. During the course of remediation activities, Etech transported approximately 12 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 12 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. Laboratory analytical reports are provided in Appendix C. General photographs of the release site are provided in Appendix D.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

7.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate 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 ConocoPhillips Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Little Bear 33M release site.

8.0 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 ConocoPhillips Company. Use of the information contained in this report is prohibited without the consent of Etech and/or ConocoPhillips Company.

9.0 DISTRIBUTION

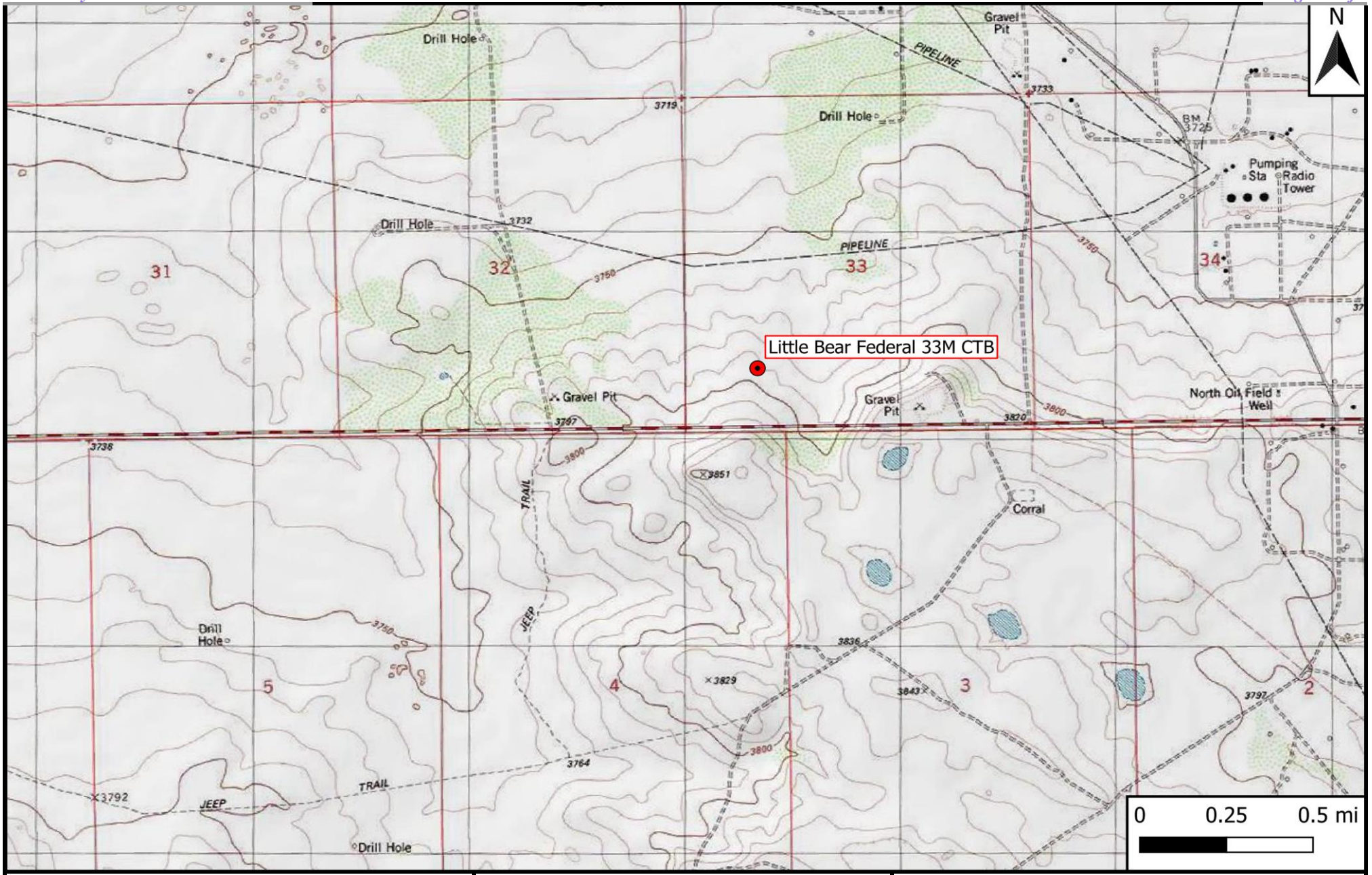
ConocoPhillips Company
3300 B A St.
Midland, TX 79705

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1220 South St. Francis Drive
Santa Fe, NM 87505

Merchant Livestock Company
P.O. Box 1105
Eunice, NM 88231

(Electronic Submission)

Figure 1
Topographic Map



Legend

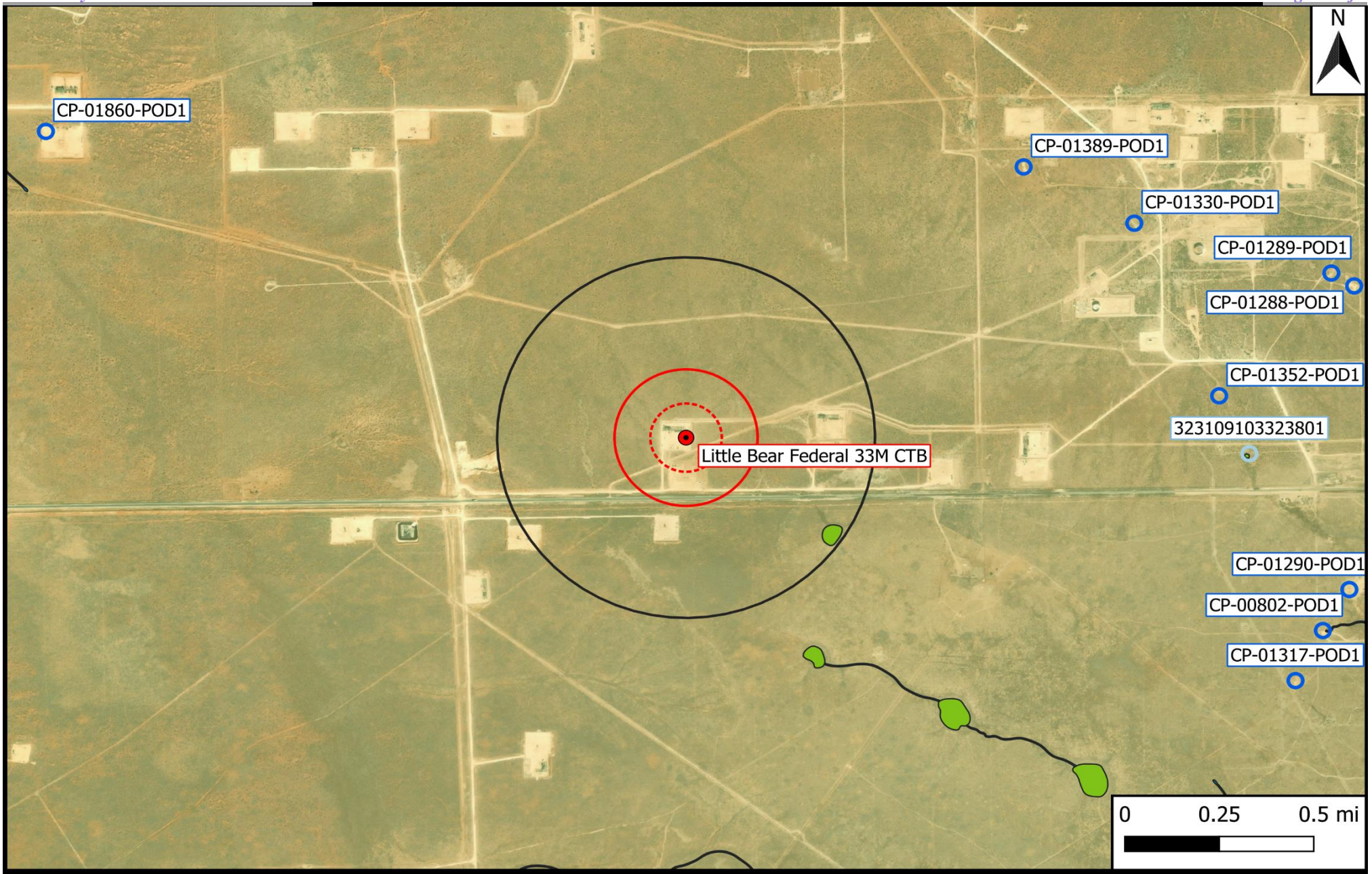
- Site Location

Figure 1
Topographic Map
ConocoPhillips Company
Little Bear Federal 33M CTB
GPS: 32.52499, -103.57015
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 5/5/22

Figure 2
Site Characterization Map



Legend

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

Figure 2

Site Characterization Map

ConocoPhillips Company

Little Bear Federal 33M CTB

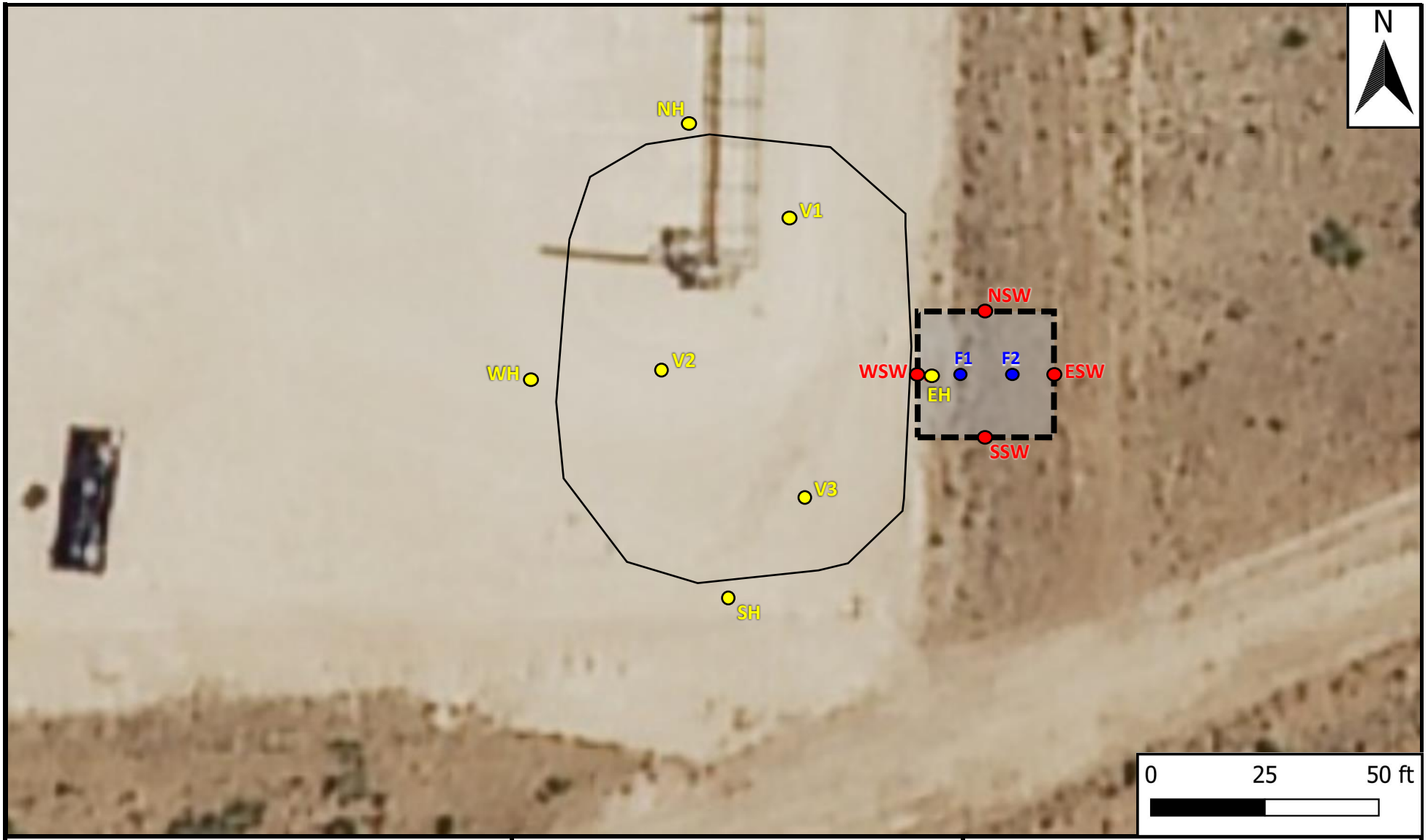
GPS: 32.52499, -103.570150

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 7/19/22

Figure 3
Site & Sample Location Map



Legend:

- Excavated Area
- Scraped Area
- Composite Floor Sample
- Composite Wall Sample
- Delineation Sample Point

Figure 3

Site & Sample Location Map

ConocoPhillips Company

Little Bear Federal 33M CTB

GPS: 32.52499, -103.570150

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 7/21/22

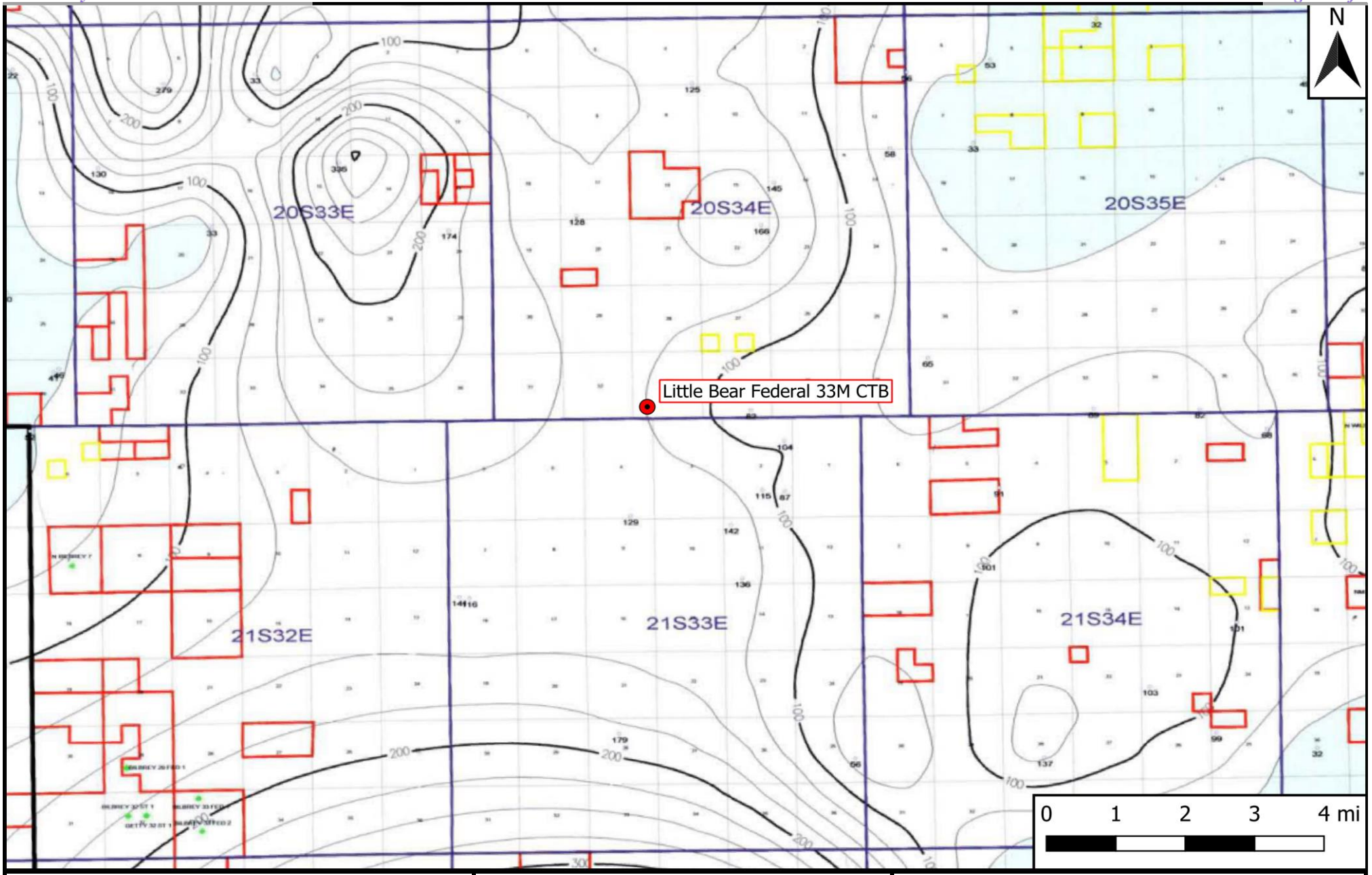
Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
ConocoPhillips Company
Little Bear Federal 33M CTB
NMOCD Ref. #: nAPP2202537169

NMOCD Closure Criteria				**10**	**50**	**N/A**	**N/A**	**1,000**	**N/A**	**2,500**	**20,000**
NMOCD Reclamation Standard				**10**	**50**	**N/A**	**N/A**	**N/A**	**N/A**	**100**	**600**
Sample ID	**Date**	**Depth (Feet)**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
Delineation Samples											
NH @ 0'	4/11/2022	0	In-Situ	<0.050	<0.300	<10.0	20.1	20.1	13.4	33.5	48.0
NH @ 1'	4/11/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EH @ 0'	4/11/2022	0	Excavated	<0.050	<0.300	<10.0	67.8	67.8	39.3	107	<16.0
EH @ 1'	4/11/2022	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH @ 0'	4/11/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH @ 1'	4/11/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH @ 0'	4/11/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WH @ 1'	4/11/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
V1 @ 0'	4/11/2022	0	In-Situ	<0.050	<0.300	<10.0	40.7	40.7	<10.0	40.7	32.0
V1 @ 1'	4/11/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
V2 @ 0'	4/11/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
V2 @ 1'	4/11/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
V3 @ 0'	4/11/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
V3 @ 1'	4/11/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
Excavation Samples											
NSW	4/27/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
ESW	4/27/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SSW	4/27/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WSW	4/27/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
F1 @ 1.5'	4/27/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F2 @ 1.5'	4/27/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

Dash (-): Sample not analyzed for that constituent.
Bold: NMOCD Closure Criteria exceedance.
Red: NMOCD Reclamation Standard exceedance.

Appendix A
Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

ConocoPhillips Company

Little Bear Federal 33M CTB

GPS: 32.52499, -103.57015

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 5/5/22

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

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

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 01389 POD1		CP	LE	1	1	1	34	20S	34E	635726	3600733	1875	1250	1005	245
CP 01330 POD1		CP	LE	4	2	1	34	20S	34E	636197	3600483	2134	1349	684	665
CP 01352 POD1		CP	LE	3	1	4	34	20S	34E	636559	3599716	2279	1270	785	485
CP 00799 POD1		CP	LE	4	3	4	34	20S	34E	636666	3599364*	2384	100		
CP 01317 POD1		CP	LE	1	3	2	02	21S	33E	636884	3598450	2812	1250	1025	225
CP 01289 POD1		CP	LE	4	4	2	34	20S	34E	637037	3600261	2844	1222	651	571
CP 00802 POD1		CP	LE	3	3	2	02	21S	33E	637001	3598672	2845	1154		
CP 01290 POD1		CP	LE		3	1	02	21S	33E	637114	3598855	2905	1250	725	525
CP 01288 POD1		CP	LE	4	4	2	34	20S	34E	637134	3600204	2925	1255	758	497
CP 01860 POD1		CP	LE	3	3	2	30	20S	34E	631560	3600891	3048	112		

Average Depth to Water: **804 feet**
Minimum Depth: **651 feet**
Maximum Depth: **1025 feet**

Record Count: 10

UTMNAD83 Radius Search (in meters):

Easting (X): 634287.69 **Northing (Y):** 3599530.33 **Radius:** 3220

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00799 POD1	4	3	4	34	20S	34E	636666	3599364*

Driller License: 122 **Driller Company:** UNKNOWN

Driller Name: VANNOY

Drill Start Date: **Drill Finish Date:** 12/31/1960 **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:**

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

Casing Size: 6.00 **Depth Well:** 100 feet **Depth Water:**

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	CP 01317 POD1	1	3	2	02	21S	33E	636884	3598450

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY"

Drill Start Date:	05/09/2014	**Drill Finish Date:**	05/15/2014	**Plug Date:**	
Log File Date:	11/04/2014	**PCW Rcv Date:**	02/24/2017	**Source:**	Artesian
Pump Type:	SUBMER	**Pipe Discharge Size:**	3	**Estimated Yield:**	85 GPM
Casing Size:	16.00	**Depth Well:**	1250 feet	**Depth Water:**	1025 feet

Water Bearing Stratifications:	Top	Bottom	Description
	1025	1048	Sandstone/Gravel/Conglomerate
	1048	1212	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	0	1017

Meter Number:	17852	**Meter Make:**	BLANCETT
Meter Serial Number:	021 604 A573	**Meter Multiplier:**	1.0000
Number of Dials:	8	**Meter Type:**	Diversion
Unit of Measure:	Barrels 42 gal.	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
12/31/2016	2016	55655	A	ap		0	
01/31/2017	2017	70691	A	ap		193.804	
03/01/2017	2017	77010	A	ap		81.448	
04/01/2017	2017	77010	A	ap		0	
05/01/2017	2017	77010	A	ap		0	
06/01/2017	2017	77010	A	ap		0	
06/30/2017	2017	130931	A	ap		695.005	
07/31/2017	2017	155864	A	ap		321.370	
10/31/2017	2017	214689	A	ap		758.215	
11/30/2017	2017	238894	A	ap		311.986	
12/29/2017	2017	266406	A	ap		354.611	
01/31/2018	2018	294000	A	ap		355.668	
02/28/2018	2018	316810	A	ap		294.006	
03/30/2018	2018	341442	A	ap		317.490	
04/30/2018	2018	353767	A	ap		158.861	
06/01/2018	2018	383766	A	ap		386.667	
06/29/2018	2018	397800	A	ap		180.889	
07/31/2018	2018	429815	A	ap		412.652	
09/01/2018	2018	458590	A	ap		370.890	

10/01/2018	2018	482605	A	ap	309.537	
11/01/2018	2018	494524	A	ap	153.628	
11/30/2018	2018	532806	A	ap	493.429	
03/01/2019	2019	575813	A	ap	554.331	
04/01/2019	2019	575813	A	ap	0	
05/01/2019	2019	575813	A	ap	0	
05/31/2019	2019	575813	A	ap	0	
06/30/2019	2019	575813	A	ap	0	
08/01/2019	2019	700916	A	RPT	16.125	
09/01/2019	2019	705927	A	RPT	0.646	
09/30/2019	2019	746152	A	RPT	5.185	
10/31/2019	2019	746152	A	RPT	0	
11/30/2019	2019	746152	A	RPT	0	
12/31/2019	2019	775181	A	RPT	3.742	
02/01/2020	2020	775181	A	RPT	0	
03/01/2020	2020	775181	A	RPT	0	
04/01/2020	2020	775181	A	RPT	0	
05/01/2020	2020	775181	A	RPT	0	
06/01/2020	2020	775181	A	RPT	0	
08/01/2020	2020	775181	A	RPT	0	
09/01/2020	2020	791489	A	RPT	2.102	
10/01/2020	2020	791489	A	RPT	0	
10/31/2020	2020	791489	A	WEB	0	X
11/30/2020	2020	791489	A	WEB	0	X
12/31/2020	2020	807868	A	WEB	2.111	X
01/31/2021	2021	821031	A	WEB	1.697	X

x

**YTD Meter Amounts:	Year	Amount
	2016	0
	2017	2716.439
	2018	3433.717
	2019	580.029
	2020	4.213
	2021	1.697

x

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	CP 01330 POD1	4	2	1	34	20S	34E	636197	3600483

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY"

Drill Start Date: 05/29/2014 **Drill Finish Date:** 06/05/2014 **Plug Date:**

Log File Date: 09/10/2014 **PCW Rcv Date:** **Source:** Artesian

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

Casing Size: 7.00 **Depth Well:** 1349 feet **Depth Water:** 684 feet

Water Bearing Stratifications:	Top	Bottom	Description
	965	1020	Sandstone/Gravel/Conglomerate
	1020	1065	Sandstone/Gravel/Conglomerate
	1065	1140	Sandstone/Gravel/Conglomerate
	1140	1185	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	905	1349

Meter Number: 17853 **Meter Make:** SEAMETRICS

Meter Serial Number: 09191916 **Meter Multiplier:** 1.0000

Number of Dials: 9 **Meter Type:** Diversion

Unit of Measure: Barrels 42 gal. **Return Flow Percent:**

Usage Multiplier: **Reading Frequency:** Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
12/31/2016	2016	953444	A	ap		0	
01/31/2017	2017	955168	A	ap		22.221	
03/01/2017	2017	964878	A	ap		125.155	
04/01/2017	2017	964878	A	ap		0	
05/01/2017	2017	964878	A	ap		0	
06/01/2017	2017	964878	A	ap		0	
06/30/2017	2017	996259	A	ap		404.480	
07/31/2017	2017	1030202	A	ap		437.502	
10/31/2017	2017	1120771	A	ap		1167.373	
11/30/2017	2017	1152803	A	ap		412.871	
12/29/2017	2017	1188095	A	ap		454.890	
01/31/2018	2018	1222646	A	ap		445.339	
02/28/2018	2018	1251444	A	ap		371.187	
03/30/2018	2018	1281588	A	ap		388.536	
04/30/2018	2018	1298034	A	ap		211.978	
06/01/2018	2018	1312770	A	ap		189.937	
06/29/2018	2018	1316727	A	ap		51.003	

07/31/2018	2018	1321964	A	ap	67.501	
09/01/2018	2018	1356780	A	ap	448.755	
10/01/2018	2018	1397324	A	ap	522.585	
11/01/2018	2018	1414872	A	ap	226.182	
11/30/2018	2018	1469408	A	ap	702.932	
03/01/2019	2019	1530963	A	ap	793.403	
04/01/2019	2019	1537352	A	ap	82.350	
05/01/2019	2019	1566041	A	ap	369.782	
05/31/2019	2019	1588026	A	ap	283.372	
06/30/2019	2019	1588026	A	ap	0	
08/01/2019	2019	1596265	A	RPT	1.062	
09/01/2019	2019	1602800	A	RPT	0.842	
09/30/2019	2019	1609572	A	RPT	0.873	
10/31/2019	2019	1646801	A	RPT	4.799	
11/30/2019	2019	1681656	A	RPT	4.493	
12/31/2019	2019	1716832	A	RPT	4.534	
02/01/2020	2020	1740772	A	RPT	3.086	
03/01/2020	2020	1740772	A	RPT	0	
04/01/2020	2020	1740772	A	RPT	0	
05/01/2020	2020	1740772	A	RPT	0	
06/01/2020	2020	1740772	A	RPT	0	
08/01/2020	2020	1740981	A	RPT	0.027	
08/19/2020	2020	1741173	A	RPT Final meter reading	0.025	
08/19/2020	2020	0	A	RPT new approved meter.	0	
09/01/2020	2020	3362	A	RPT	0.433	
10/01/2020	2020	6884	A	RPT	0.454	
10/31/2020	2020	7678	A	WEB	0.102	X
11/30/2020	2020	7678	A	WEB	0	X
12/31/2020	2020	7686	A	WEB	0.001	X
01/31/2021	2021	7686	A	WEB	0	X
02/28/2021	2021	7686	A	WEB	0	X
03/31/2021	2021	7686	A	WEB	0	X
04/30/2021	2021	14054	A	WEB	0.821	X
05/31/2021	2021	14054	A	WEB	0	X
06/30/2021	2021	14055	A	WEB	0	X
07/31/2021	2021	14275	A	WEB	0.028	X
08/31/2021	2021	16530	A	WEB	0.291	X
09/30/2021	2021	16530	A	WEB	0	X
10/31/2021	2021	16530	A	WEB	0	X
11/30/2021	2021	16530	A	WEB	0	X
01/03/2022	2021	17327	A	WEB	0.103	X
01/31/2022	2022	17327	A	WEB	0	X
02/28/2022	2022	17327	A	WEB	0	X

x

**YTD Meter Amounts:	Year	Amount
	2016	0
	2017	3024.492
	2018	3625.935
	2019	1545.510
	2020	4.128

2021	1.243
2022	0

x

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01352 POD1	3	1	4	34	20S	34E	636559	3599716

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY"

Drill Start Date: 07/29/2016 **Drill Finish Date:** 07/30/2016 **Plug Date:**

Log File Date: 08/09/2016 **PCW Rcv Date:** **Source:** Artesian

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 42 GPM

Casing Size: 6.50 **Depth Well:** 1270 feet **Depth Water:** 785 feet

Water Bearing Stratifications:

Top	Bottom	Description
999	1022	Sandstone/Gravel/Conglomerate
1022	1085	Sandstone/Gravel/Conglomerate
1085	1107	Sandstone/Gravel/Conglomerate
1107	1128	Sandstone/Gravel/Conglomerate
1128	1234	Sandstone/Gravel/Conglomerate
1234	1270	Shale/Mudstone/Siltstone

Casing Perforations:

Top	Bottom
947	1270

Meter Number: 17856 **Meter Make:** BLANCETT

Meter Serial Number: 112 211 502 **Meter Multiplier:** 1.0000

Number of Dials: 8 **Meter Type:** Diversion

Unit of Measure: Barrels 42 gal. **Return Flow Percent:**

Usage Multiplier: **Reading Frequency:** Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
12/31/2016	2016	20083	A	ap		0	
01/31/2017	2017	20352	A	ap		3.467	
03/01/2017	2017	24169	A	ap		49.199	
04/01/2017	2017	24169	A	ap		0	
05/01/2017	2017	24169	A	ap		0	
06/01/2017	2017	24169	A	ap		0	
06/30/2017	2017	50671	A	ap		341.593	
07/31/2017	2017	73096	A	ap		289.043	
10/31/2017	2017	128138	A	ap		709.454	
11/30/2017	2017	138961	A	ap		139.501	
12/29/2017	2017	138961	A	ap		0	
01/31/2018	2018	198987	A	ap		773.695	
02/28/2018	2018	219209	A	ap		260.648	
03/30/2018	2018	236399	A	ap		221.568	
04/30/2018	2018	254856	A	ap		237.898	

06/01/2018	2018	260493	A	ap	72.657	
06/29/2018	2018	265385	A	ap	63.055	
07/31/2018	2018	265385	A	ap	0	
09/01/2018	2018	265385	A	ap	0	
10/01/2018	2018	265385	A	ap	0	
11/01/2018	2018	265385	A	ap	0	
11/30/2018	2018	265385	A	ap	0	
03/01/2019	2019	273371	A	ap	102.934	
04/01/2019	2019	282740	A	Ap	120.760	
05/01/2019	2019	303670	A	Ap	269.774	
05/31/2019	2019	318821	A	Ap	195.286	
06/30/2019	2019	318821	A	Ap	0	
08/01/2019	2019	323078	A	RPT	0.549	
09/01/2019	2019	330695	A	RPT	0.982	
09/30/2019	2019	335482	A	RPT	0.617	
10/31/2019	2019	345706	A	RPT	1.318	
11/30/2019	2019	365264	A	RPT	2.521	
12/31/2019	2019	387964	A	RPT	2.926	
02/01/2020	2020	404703	A	RPT	2.158	
03/01/2020	2020	404703	A	RPT	0	
04/01/2020	2020	404703	A	RPT	0	
05/01/2020	2020	404703	A	RPT	0	
06/01/2020	2020	404703	A	RPT	0	
09/01/2020	2020	410299	A	RPT	0.721	
10/01/2020	2020	413825	A	RPT	0.454	
10/31/2020	2020	413825	A	WEB	0	X
11/30/2020	2020	415371	A	WEB	0.199	X
12/30/2020	2020	415371	A	RPT	0	
12/31/2020	2020	0	A	RPT	0	

x

**YTD Meter Amounts:	Year	Amount
	2016	0
	2017	1532.257
	2018	1629.521
	2019	697.667
	2020	3.532

x

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01389 POD1	1	1	1	34	20S	34E	635726	3600733

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY"

Drill Start Date: 01/05/2015 **Drill Finish Date:** 01/13/2015 **Plug Date:**

Log File Date: 02/04/2015 **PCW Rcv Date:** **Source:** Artesian

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

Casing Size: 6.50 **Depth Well:** 1250 feet **Depth Water:** 1005 feet

Water Bearing Stratifications:

Top	Bottom	Description
995	1014	Sandstone/Gravel/Conglomerate
1014	1199	Sandstone/Gravel/Conglomerate
1199	1230	Sandstone/Gravel/Conglomerate
1230	1240	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
912	1250

Meter Number: 17857 **Meter Make:** BLANCETT

Meter Serial Number: 021 501 437 **Meter Multiplier:** 1.0000

Number of Dials: 8 **Meter Type:** Diversion

Unit of Measure: Barrels 42 gal. **Return Flow Percent:**

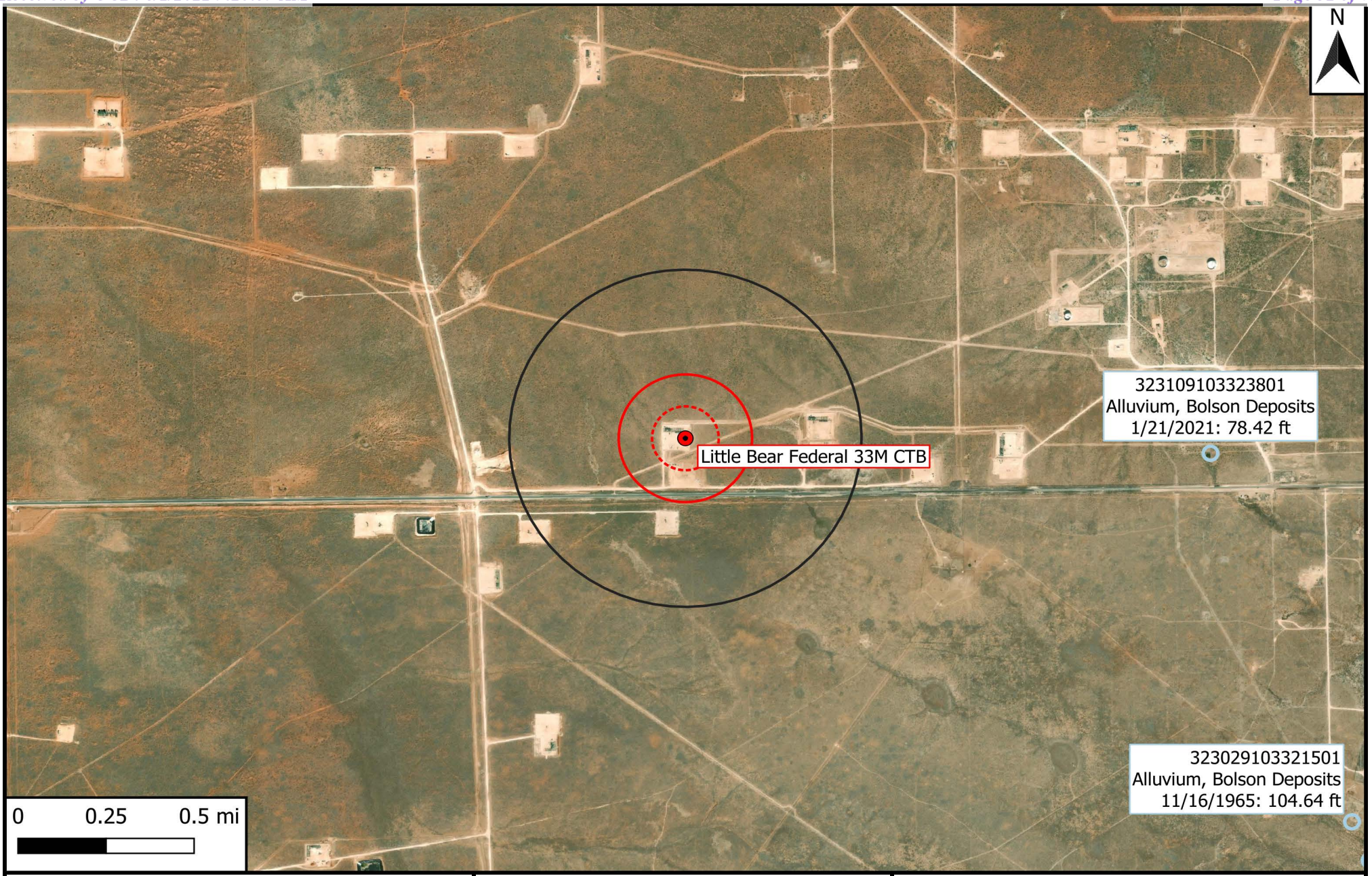
Usage Multiplier: **Reading Frequency:** Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
12/31/2016	2016	643200	A	ym		0	
01/31/2017	2017	659677	A	ym		212.377	
03/01/2017	2017	668463	A	ap		113.246	
04/01/2017	2017	668463	A	ap		0	
05/01/2017	2017	668463	A	ap		0	
06/01/2017	2017	668463	A	ap		0	
06/30/2017	2017	753526	A	ap		1096.405	
07/31/2017	2017	790940	A	ap		482.241	
10/31/2017	2017	887028	A	ap		1238.510	
11/30/2017	2017	931714	A	ap		575.972	
12/29/2017	2017	978472	A	ap		602.679	
01/31/2018	2018	1025480	A	ap		605.901	
02/28/2018	2018	1064561	A	ap		503.728	
03/30/2018	2018	1064561	A	ap		0	
04/30/2018	2018	1124101	A	ap		767.431	
06/01/2018	2018	1166461	A	ap		545.992	
06/29/2018	2018	1181122	A	ap		188.970	

07/31/2018	2018	1198381	A	ap	222.457	
09/01/2018	2018	1246600	A	ap	621.510	
10/01/2018	2018	1280459	A	ap	436.420	
11/01/2018	2018	1299657	A	ap	247.449	
11/30/2018	2018	1351407	A	ap	667.023	
03/01/2019	2019	1416173	A	ap	834.790	
04/01/2019	2019	1430857	A	ap	189.267	
05/01/2019	2019	1459823	A	ap	373.352	
05/31/2019	2019	1482018	A	ap	286.079	
06/30/2019	2019	1482018	A	ap	0	
08/01/2019	2019	1507510	A	RPT	3.286	
09/01/2019	2019	1523727	A	RPT	2.090	
09/30/2019	2019	1556952	A	RPT	4.282	
10/31/2019	2019	1558164	A	RPT	0.156	
11/30/2019	2019	1558164	A	RPT	0	
12/31/2019	2019	1563212	A	RPT	0.651	
02/01/2020	2020	1587959	A	RPT	3.190	
03/01/2020	2020	1587959	A	RPT	0	
04/01/2020	2020	1587959	A	RPT	0	
05/01/2020	2020	1587959	A	RPT	0	
06/01/2020	2020	1587959	A	RPT	0	
08/01/2020	2020	1593314	A	RPT	0.690	
09/01/2020	2020	1604044	A	RPT	1.383	
10/01/2020	2020	1608382	A	RPT	0.559	
10/31/2020	2020	1608900	A	WEB	0.067	X
11/30/2020	2020	1608900	A	WEB	0	X
12/31/2020	2020	1612278	A	WEB	0.435	X
01/31/2021	2021	1612278	A	WEB	0	X

**YTD Meter Amounts:	Year	Amount
	2016	0
	2017	4321.430
	2018	4806.881
	2019	1693.953
	2020	6.324
	2021	0



Legend

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

Figure 5

USGS Well Proximity Map

ConocoPhillips Company

Little Bear Federal 33M CTB

GPS: 32.52499, -103.57015

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 5/5/22

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323029103321501

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 323029103321501 21S.33E.02.24141

Lea County, New Mexico
Latitude 32°30'29", Longitude 103°32'15" NAD27
Land-surface elevation 3,782 feet above NAVD88
The depth of the well is 120 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

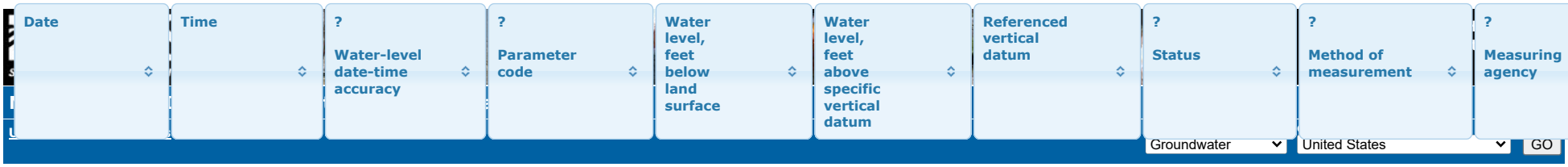
Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1954-06-28		D	72019	107.20			P	Z			A
1961-03-08		D	72019	103.39			1	Z			A
1965-11-16		D	72019	104.64			1	Z			A

Explanation

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



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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323109103323801

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 323109103323801 20S.34E.34.43421

Lea County, New Mexico
Latitude 32°31'26.6", Longitude 103°32'40.6" NAD83
Land-surface elevation 3,776 feet above NAVD88
The depth of the well is 100 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1972-10-02		D	72019	89.50			P	Z			A
1976-01-28		D	72019	84.94			1	Z			A
1981-02-18		D	72019	83.68			1	Z			A
1986-04-01		D	72019	84.14			1	Z			A
1996-02-02		D	72019	81.97			1	S			A
2015-12-17	22:40 UTC	m	72019	70.46			1	S	USGS	S	A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency
2021-01-21	21:30 UTC	m	72019	78.42		1	V	USGS	S	A
2022-02-16	17:50 UTC	m	72019	78.08		1	V	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Appendix B
Field Data

eTECH Environmental & Safety Solutions, Inc.

Sample Log

Date: _____

Project: Little Bear 33M

Project Number: 15865 Latitude: 32.52499 Longitude: -103.57015

Sample ID	PID/Odor	Chloride Conc.	GPS
NH e0'	none	2.2 > 236	
NH e1'	none	1.8 > 172	
EH e0'	none	2.8 > 344	
EH e1'	none	2.4 > 268	
WH e0'	none	2.8 > 344	
WH e1'	none	1.2 > <200	
SH e0'	none	2.4 > 268	
SH e1'	none	2.2 > 236	
V1 e0'	slight	2.8 > 344	
V1 e1'	none	1.2 > <200	
V2 e0'	none	2.8 > 344	
V2 e1'	none	2.2 > 236	
V3 e0'	slight	3.6 > 516	
V3 e1'	none	1.6 > 144	

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

TECH Environmental & Safety Solutions, Inc.

Sample Log

Date:

Project: Little Bear 33M

Project Number: 15865 Latitude: 32.52499 Longitude: -103.57015

Sample ID	PID/Odor	Chloride Conc.	GPS
NSW	None	396	
ESW	None	352	
WSW	None	488	
SSW	None	116	
FL1@1	None	352	
FL2@1	None	316	

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
Laboratory Analytical Reports

CARDINAL Laboratories

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

April 18, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LITTLE BEAR 33M

Enclosed are the results of analyses for samples received by the laboratory on 04/11/22 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: NH @ 0' (H221476-01)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.834	
Toluene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.917	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.03	101	2.00	0.676	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.27	105	6.00	0.667	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	04/14/2022	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	195	97.5	200	6.71	
DRO >C10-C28*	**20.1**	10.0	04/13/2022	ND	175	87.4	200	1.86	
EXT DRO >C28-C36	**13.4**	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane *98.7 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *98.9 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: NH @ 1' (H221476-02)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.834	
Toluene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.917	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.03	101	2.00	0.676	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.27	105	6.00	0.667	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	04/14/2022	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	195	97.5	200	6.71	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	175	87.4	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane *98.8 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *102 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: WH @ 0' (H221476-03)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.834	
Toluene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.917	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.03	101	2.00	0.676	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.27	105	6.00	0.667	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/14/2022	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	195	97.5	200	6.71	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	175	87.4	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane *86.8 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *88.2 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: WH @ 1' (H221476-04)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.834	
Toluene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.917	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.03	101	2.00	0.676	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.27	105	6.00	0.667	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	04/14/2022	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	195	97.5	200	6.71	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	175	87.4	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane *83.6 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *85.4 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SH @ 0' (H221476-05)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.834	
Toluene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.917	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.03	101	2.00	0.676	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.27	105	6.00	0.667	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/14/2022	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	04/13/2022	ND	195	97.5	200	6.71	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	175	87.4	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane *91.6 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *91.6 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SH @ 1' (H221476-06)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.834	
Toluene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.917	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.03	101	2.00	0.676	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.27	105	6.00	0.667	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	04/14/2022	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	04/13/2022	ND	195	97.5	200	6.71	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	175	87.4	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane *93.1 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *93.6 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: EH @ 0' (H221476-07)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.834	
Toluene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.917	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.03	101	2.00	0.676	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.27	105	6.00	0.667	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/14/2022	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	04/14/2022	ND	195	97.5	200	6.71	
DRO >C10-C28*	**67.8**	10.0	04/14/2022	ND	175	87.4	200	1.86	
EXT DRO >C28-C36	**39.3**	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane *98.8 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *105 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: EH @ 1' (H221476-08)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.834	
Toluene*	<0.050	0.050	04/14/2022	ND	2.12	106	2.00	0.917	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.03	101	2.00	0.676	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.27	105	6.00	0.667	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/14/2022	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	04/13/2022	ND	199	99.6	200	7.46	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	216	108	200	7.69	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane *86.8 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *87.7 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: V 1 @ 0' (H221476-09)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.06	103	2.00	1.11	
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	0.241	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	1.99	99.6	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.22	104	6.00	0.00300	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/14/2022	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	04/13/2022	ND	199	99.6	200	7.46	
DRO >C10-C28*	**40.7**	10.0	04/13/2022	ND	216	108	200	7.69	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane *84.3 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *90.8 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: V 1 @ 1' (H221476-10)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.06	103	2.00	1.11	
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	0.241	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	1.99	99.6	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.22	104	6.00	0.00300	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	04/14/2022	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	04/13/2022	ND	199	99.6	200	7.46	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	216	108	200	7.69	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane *93.7 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *95.3 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: V 2 @ 0' (H221476-11)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.06	103	2.00	1.11	
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	0.241	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	1.99	99.6	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.22	104	6.00	0.00300	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/14/2022	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	04/13/2022	ND	199	99.6	200	7.46	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	216	108	200	7.69	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane *85.5 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *86.4 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: V 2 @ 1' (H221476-12)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.06	103	2.00	1.11	
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	0.241	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	1.99	99.6	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.22	104	6.00	0.00300	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	04/14/2022	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	04/13/2022	ND	199	99.6	200	7.46	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	216	108	200	7.69	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane *90.9 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *92.6 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: V 3 @ 0' (H221476-13)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.06	103	2.00	1.11	
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	0.241	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	1.99	99.6	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.22	104	6.00	0.00300	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/14/2022	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	04/13/2022	ND	199	99.6	200	7.46	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	216	108	200	7.69	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane *81.0 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *81.9 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/11/2022	Sampling Date:	04/11/2022
Reported:	04/18/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: V 3 @ 1' (H221476-14)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.06	103	2.00	1.11	
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	0.241	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	1.99	99.6	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.22	104	6.00	0.00300	
Total BTEX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	04/14/2022	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	04/13/2022	ND	199	99.6	200	7.46	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	216	108	200	7.69	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane *91.4 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *94.1 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Etech Environmental & Safety Solutions, Inc.	**BILL TO**	
Project Manager:	Kathy Purvis	**P.O. #:**	
Address:	2617 West Marland	**Company**	ConocoPhillips
City:	Hobbs **State:** NM **Zip:** 88240	**Attn:**	Jacqui Harris
Phone #:	(575) 264-9884 **Fax #:**	**Address:**	
Project #:	15865 **Project Owner:** ConocoPhillips	**City:**	
Project Name:	Little Bear 33M	**State:** NM **Zip:**	
Project Location:	Rural Lea County, NM	**Phone #:**	
Sampler Name:	Matthew Grieco	**Fax #:**	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST																
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	Chloride	TPH (8015M)	BTEX (8021B)														
H221474																														
1	NH @ 0'	G	1			X					X		4/11/22		X	X	X													
2	NH @ 1'	G	1			X					X		4/11/22		X	X	X													
3	WH @ 0'	G	1			X					X		4/11/22		X	X	X													
4	WH @ 1'	G	1			X					X		4/11/22		X	X	X													
5	SH @ 0'	G	1			X					X		4/11/22		X	X	X													
6	SH @ 1'	G	1			X					X		4/11/22		X	X	X													
7	EH @ 0'	G	1			X					X		4/11/22		X	X	X													
8	EH @ 1'	G	1			X					X		4/11/22		X	X	X													
9	V1 @ 0'	G	1			X					X		4/11/22		X	X	X													
10	V1 @ 1'	G	1			X					X		4/11/22		X	X	X													

Relinquished By:	**Date:** 4-11-22	**Received By:**	Phone Result: ☐ Yes ☐ No	Add'l Phone #:
	Time: 1445		Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Relinquished By:	**Date:**	**Received By:**	REMARKS:	
	Time:			

Delivered By: (Circle One) Sampler - UPS - Bus - Other: -3.2°C -0.5°C -3.7°C #113

Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No

CHECKED BY: (Initials) TO

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

FORM-006
Revision 1.0

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

CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Etech Environmental & Safety Solutions, Inc.	**BILL TO**	
Project Manager:	Kathy Purvis	**P.O. #:**	
Address:	2617 West Marland	**Company**	ConocoPhillips
City:	Hobbs **State:** NM **Zip:** 88240	**Attn:**	Jacqui Harris
Phone #:	(575) 264-9884 **Fax #:**	**Address:**	
Project #:	15865 **Project Owner:** ConocoPhillips	**City:**	
Project Name:	Little Bear 33M	**State:** NM **Zip:**	
Project Location:	Rural Lea County, NM	**Phone #:**	
Sampler Name:	Matthew Grieco	**Fax #:**	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST			
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	Chloride	TPH (8015M)	BTEX (8021B)	
H221476																		
11	V2 @ 0'	G	1			X					X		4/11/22		X	X	X	
12	V2 @ 1'	G	1			X					X		4/11/22		X	X	X	
13	V3 @ 0'	G	1			X					X		4/11/22		X	X	X	
14	V3 @ 1'	G	1			X					X		4/11/22		X	X	X	

Relinquished By:	**Date:** 4-11-22	**Received By:**		Phone Result: ☐ Yes ☐ No	Add'l Phone #:
	Time: 1445			Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Relinquished By:	**Date:**	**Received By:**		**REMARKS:**	
	Time:			Please email copy of COC and results to pm@etechenv.com.	

Delivered By: (Circle One) -3.2°C -0.5°C
Sampler - UPS - Bus - Other: -3.7°C #113

Sample Condition		CHECKED BY: (Initials)
Cool	Intact	
☑ Yes ☐ No	☑ Yes ☐ No	TO

FORM-006
Revision 1.0

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

CARDINAL Laboratories

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

April 29, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LITTLE BEAR 33M

Enclosed are the results of analyses for samples received by the laboratory on 04/28/22 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/28/2022	Sampling Date:	04/27/2022
Reported:	04/29/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865:001	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: NSW (H221745-01)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2022	ND	2.05	103	2.00	0.293	
Toluene*	<0.050	0.050	04/28/2022	ND	2.04	102	2.00	0.237	
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	1.93	96.3	2.00	1.04	
Total Xylenes*	<0.150	0.150	04/28/2022	ND	5.96	99.3	6.00	2.13	
Total BTEX	<0.300	0.300	04/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/28/2022	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	220	110	200	0.172	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	235	117	200	0.398	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane *92.2 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *106 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/28/2022	Sampling Date:	04/27/2022
Reported:	04/29/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865:001	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SSW (H221745-02)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2022	ND	2.05	103	2.00	0.293	
Toluene*	<0.050	0.050	04/28/2022	ND	2.04	102	2.00	0.237	
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	1.93	96.3	2.00	1.04	
Total Xylenes*	<0.150	0.150	04/28/2022	ND	5.96	99.3	6.00	2.13	
Total BTEX	<0.300	0.300	04/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/28/2022	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	220	110	200	0.172	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	235	117	200	0.398	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane *96.1 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *111 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/28/2022	Sampling Date:	04/27/2022
Reported:	04/29/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865:001	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: ESW (H221745-03)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2022	ND	2.05	103	2.00	0.293	
Toluene*	<0.050	0.050	04/28/2022	ND	2.04	102	2.00	0.237	
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	1.93	96.3	2.00	1.04	
Total Xylenes*	<0.150	0.150	04/28/2022	ND	5.96	99.3	6.00	2.13	
Total BTEX	<0.300	0.300	04/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	04/28/2022	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	220	110	200	0.172	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	235	117	200	0.398	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane *95.9 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *110 %* *59.5-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/28/2022	Sampling Date:	04/27/2022
Reported:	04/29/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865:001	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: WSW (H221745-04)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2022	ND	2.05	103	2.00	0.293	
Toluene*	<0.050	0.050	04/28/2022	ND	2.04	102	2.00	0.237	
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	1.93	96.3	2.00	1.04	
Total Xylenes*	<0.150	0.150	04/28/2022	ND	5.96	99.3	6.00	2.13	
Total BTEX	<0.300	0.300	04/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	04/28/2022	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	219	109	200	2.07	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	224	112	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane *87.5 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *87.1 %* *59.5-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/28/2022	Sampling Date:	04/27/2022
Reported:	04/29/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865:001	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F1 @ 1.5' (H221745-05)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2022	ND	2.05	103	2.00	0.293	
Toluene*	<0.050	0.050	04/28/2022	ND	2.04	102	2.00	0.237	
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	1.93	96.3	2.00	1.04	
Total Xylenes*	<0.150	0.150	04/28/2022	ND	5.96	99.3	6.00	2.13	
Total BTEX	<0.300	0.300	04/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/28/2022	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	219	109	200	2.07	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	224	112	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane *86.8 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *84.3 %* *59.5-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
KATHY PURVIS
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	04/28/2022	Sampling Date:	04/27/2022
Reported:	04/29/2022	Sampling Type:	Soil
Project Name:	LITTLE BEAR 33M	Sampling Condition:	Cool & Intact
Project Number:	15865:001	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F2 @ 1.5' (H221745-06)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2022	ND	2.05	103	2.00	0.293	
Toluene*	<0.050	0.050	04/28/2022	ND	2.04	102	2.00	0.237	
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	1.93	96.3	2.00	1.04	
Total Xylenes*	<0.150	0.150	04/28/2022	ND	5.96	99.3	6.00	2.13	
Total BTEX	<0.300	0.300	04/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/28/2022	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	219	109	200	2.07	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	224	112	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane *89.0 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *86.4 %* *59.5-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name:	Etech Environmental & Safety Solutions, Inc.	BILL TO	
Project Manager:	K. Purvis	P.O. #:	
Address:	~~P.O. Box 301~~ 2617 W Marland	Company:	ConocoPhillips
City:	~~Levington~~ Hobbs State: NM Zip: ~~88260~~ 88240	Attn:	Charles Beauvais
Phone #:	(575) 396-2378 Fax #: (575) 396-1429	Address:	
Project #:	15865:001 Project Owner: ConocoPhillips	City:	
Project Name:	Little Bear 33H	State: Zip:	
Project Location:	Rural Lea County, NM	Phone #:	
Sampler Name:	Dominic Casares	Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST												
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	Chloride	TPH (8015M)	BTEX (8021B)										
H22174S																											
1	NSW	C	1			✓					✓		4/27/22		X	X	X										
2	SSW																										
3	ESW																										
4	WSW																										
5	F1 @ 1.5'																										
6	F2 @ 1.5'																										

KW 4/28/22

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: 4/28/22 Time: 5:00pm	Received By:	
Relinquished By:	Date: 4.28.22 Time: 0900	Received By:	Tamara Oldaker
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-7.9° C -0.5° -8.4° #113	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials) TO

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS: Rush!

Please email results to pm@etechenv.com.

FORM-006
Revision 1.0

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

Appendix D
Photographic Log

Photographic Log

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

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

Photographic Log

Photo Number: 3 **Photo Direction:** Southeast **Photo Description:** View of the scraped area.	

Photo Number: 4 **Photo Direction:** East **Photo Description:** View of the scraped area.	

Photographic Log

Photo Number: 5 **Photo Direction:** East **Photo Description:** View of the excavated area.	

Photo Number: 6 **Photo Direction:** North **Photo Description:** View of the excavated area.	

Photographic Log

Photo Number: 7	
Photo Direction: North	
Photo Description: View of the remediated area after backfilling and regrading.	

Photo Number: 8	
Photo Direction: South-Southwest	
Photo Description: View of the remediated area after backfilling and regrading.	

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

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

CONDITIONS

Action 130078

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 130078
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	8/3/2022