

Incident ID	nAPP2132141822
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>130</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

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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: Jacqui Harris Title: Sr. Environmental Engineer

Signature:  Date: 2/1/22

email: Jacqui.Harris@conocophillips.com Telephone: (575) 745-1807

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2132141822
District RP	
Facility ID	
Application ID	

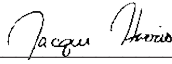
Closure

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: Jacqui Harris Title: Sr. Environmental Engineer
Signature:  Date: 2/1/22
email: Jacqui.Harris@conocophillips.com Telephone: (575) 745-1807

OCD Only

Received by: _____ Date: _____

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

Closure Approved by:  Date: 02/28/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A

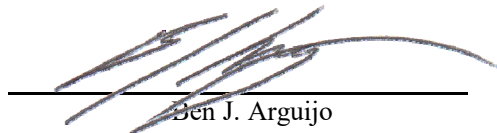
Remediation Summary & Soil Closure Request

COG Operating, LLC Wild Cap State Com 003H

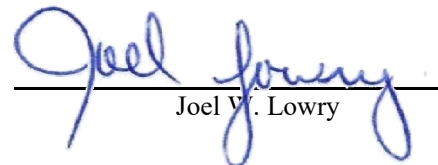
Eddy County, New Mexico
Unit Letter "J", Section 36, Township 19 South, Range 31 East
Latitude 32.6162 North, Longitude 103.8192 West
NMOCD Reference No. nAPP2132141822

Prepared By:

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



Ben J. Arguijo



Joel V. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Wild Cap State Com 003H (henceforth, "Wild Cap 003H"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.6162 Longitude: -103.8192

Provided GPS are in WGS84 format.

Site Name: Wild Cap State Com 003H	Site Type: Tank Battery
Date Release Discovered: 10/30/2021	API # (if applicable): 30-015-36032

Unit Letter	Section	Township	Range	County
"J"	36	19S	31E	Eddy

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

Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 461	Volume Recovered (bbls) 346
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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) Pipeline Liquids	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

The release was attributed to a hole in the bottom of a tank caused by corrosion. The release was contained within an unlined berm. During initial response activities, a vacuum truck was dispatched to remove all freestanding fluids.

Initial Response

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

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

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Wild Cap 003H 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?	130'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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 Wild Cap 003H release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
130'	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 November 15, 2021, Etech conducted an initial site assessment. During the initial site assessment, two (2) hand-augered soil bores (SP1 and SP2) were advanced to the extent practicable within the release margins in an effort to determine the depth 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 12 delineation soil samples (NH @ Surface, NH @ 1', EH @ Surface, EH @ 1', SH @ Surface, SH @ 1', WH @ Surface, WH @ 1', SP1 @ Surface, SP1 @ 7' - R, SP2 @ Surface, and SP2 @ 7' - R) were submitted to a certified commercial 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 seven (7) feet below ground surface (bgs) in the areas characterized by sample points SP1 and SP2.

The locations of the hand-augered soil bores are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data and soil profile logs are provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the release site are provided in Appendix D.

5.0 REMEDIATION ACTIVITIES SUMMARY

On December 27, 2021, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a Hach Quantab® 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.

Etech collected five (5) confirmation soil samples (WW1, F 1 @ 8', F 2 @ 6', F 3 @ 5', and F 4 @ 5') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations exceeded the applicable NMOCD Closure Criteria in soil samples WW1, F 3 @ 5', and F 4 @ 5'. BTEX concentrations ranged from less than the laboratory method detection limit (MDL) in soil samples F 1 @ 8' and F 2 @ 6' to 633 mg/kg in soil sample F 4 @ 5'. TPH concentrations ranged from less than the laboratory MDL in soil samples F 1 @ 8' and F 2 @ 6' to 21,600 mg/kg in soil sample F 4 @ 5'. Chloride concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples and ranged from 16.0 mg/kg in soil sample F 4 @ 5' to 128 mg/kg in soil sample F 1 @ 8'.

On December 28, 2021, Etech collected six (6) confirmation soil samples (NW1, NW2, SW1, F 5 @ 4', F 6 @ 4', and F 7 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations exceeded the applicable NMOCD Closure Criteria in soil samples F 5 @ 4', F 6 @ 4', and F 7 @ 4'. BTEX concentrations ranged from less than the laboratory MDL in soil samples NW1, NW2, and SW1 to 826 mg/kg in soil sample F 6 @ 4'. TPH concentrations ranged from less than the laboratory MDL in soil samples NW1, NW2, and SW1 to 16,480 mg/kg in soil sample F 7 @ 4'. Chloride concentrations were below both the NMOCD Closure Criterion and the laboratory MDL in each of the submitted soil samples, with the exception of soil sample F 5 @ 4', which exhibited a chloride concentration of 32.0 mg/kg.

On December 29, 2021, Etech collected two (2) confirmation soil samples (F 11 @ 6' and F 12 @ 7') from the floor of the excavated area. 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 in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. The chloride concentration in both soil samples was 32.0 mg/kg.

On December 30, 2021, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples WW1 and F 3 @ 5'. Etech collected three (3) confirmation soil samples (WW1 B, F 3 @ 8', and F 8 @ 8') from the sidewalls and floor of the excavated area. 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 in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples F 3 @ 8' and F 8 @ 8' to 48.0 mg/kg in soil sample WW1 B.

On January 3, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples F 4 @ 5', F 5 @ 5', F 6 @ 4', and F 7 @ 4'. Etech collected eight (8) confirmation soil samples (EW, SW2, F 4 @ 8', F 5 @ 8', F 6 @ 8', F 7 @ 8', F 9 @ 8', and F 10 @ 8') from the sidewalls and floor of the excavated area. 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 in each of the submitted soil samples. BTEX concentrations were also below the laboratory MDL in each of the submitted soil samples, with the exceptions of samples F 4 @ 8' and F 7 @ 8', which exhibited concentrations of 0.367 mg/kg and 0.365 mg/kg, respectively. TPH concentrations ranged from less than the laboratory MDL in soil samples EW, SW2, F 5 @ 8', and F 10 @ 8' to 1,088 mg/kg in soil sample F 7 @ 8'. Chloride concentrations ranged from 16.0 mg/kg in soil samples EW, SW2, F 4 @ 8', F 5 @ 8', F 7 @ 8', and F 10 @ 8' to 32.0 mg/kg in soil samples F 6 @ 8' and F 9 @ 8'.

The final dimensions of the excavated area were approximately 75 feet in length, 30 feet in width, and six (6) to eight (8) feet in depth. During the course of remediation activities, approximately 520 cubic yards of impacted soil were transported to an NMOCD-permitted surface waste facility for disposal. Approximately 500 cubic yards of locally sourced, non-impacted material were imported 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 and soil profile logs are 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

The release was limited to the containment area of an active tank battery facility. 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 and compacted/contoured to fit the needs of the facility. Final reclamation and re-vegetation will be conducted upon decommission and abandonment of the facility.

7.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria 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/or NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends COG Operating, LLC, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Wild Cap 003H 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 reference 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 COG Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or COG Operating, LLC.

9.0 DISTRIBUTION

COG Operating, LLC

*600 West Illinois Avenue
Midland, TX 79701*

New Mexico Energy, Minerals and Natural Resources Department

*Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210*

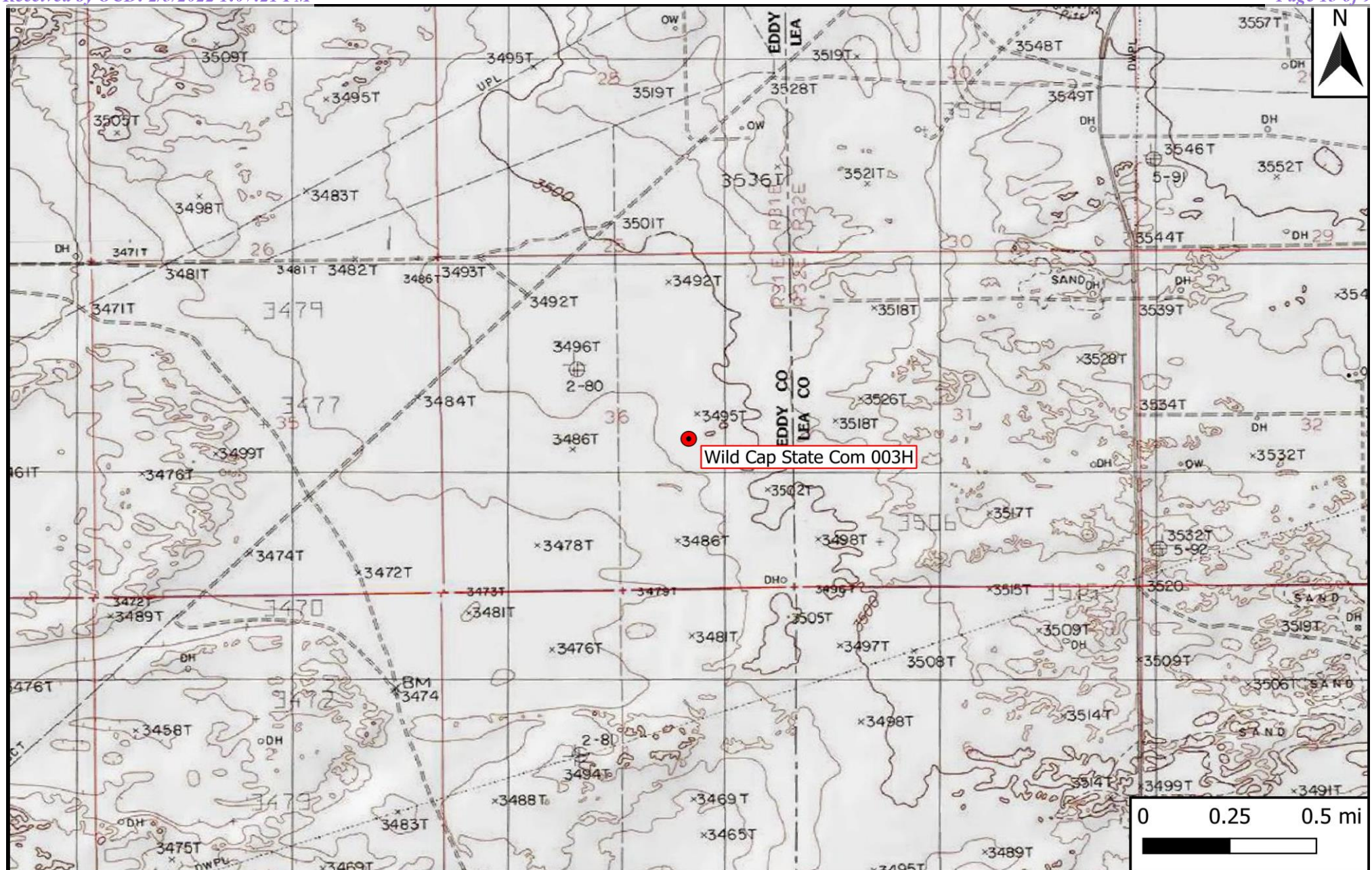
Hobbs Field Office

*New Mexico State Land Office
2827 North Dal Paso Street
Suite 117
Hobbs, NM 88240*

(Electronic Submission)

Figure 1

Topographic Map



Legend

● Site Location

Figure 1

Topographic Map
 COG Operating, LLC
 Wild Cap State Com 003H
 GPS: 32.6162, -103.8192
 Eddy County

ETECH
 Environmental & Safety Solutions, Inc.

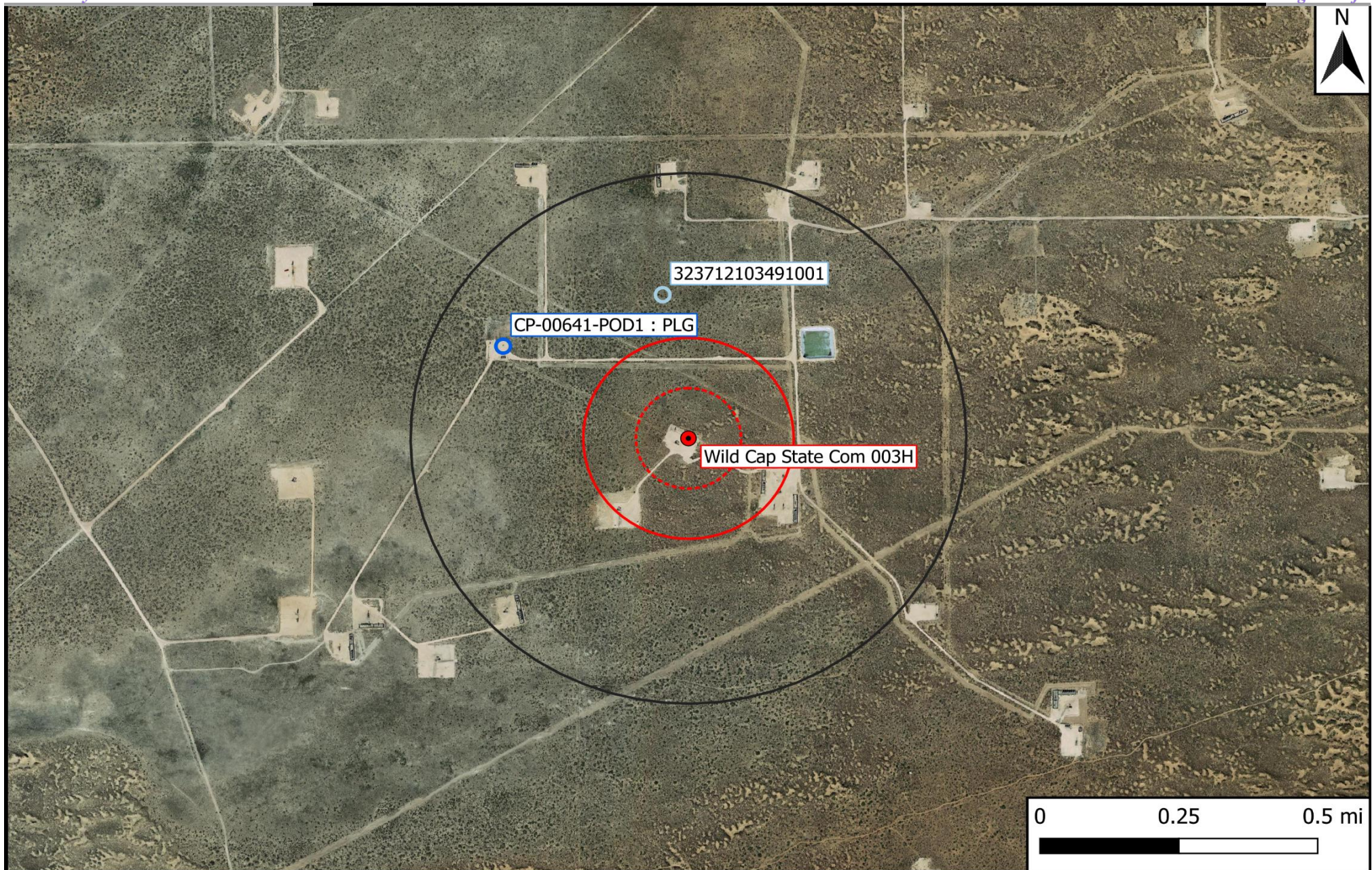
Drafted: bja

Checked: jwl

Date: 1/10/22

Figure 2

Aerial Proximity Map



Legend

- | | | |
|------------------------------|------------------------------|-------------------|
| ● Site Location | ■ 1% Annual Flood Chance | ⋯ 500-Ft Radius |
| ○ Well - NMOSE | ■ Emergent/Forested Wetlands | ⋯ 1,000-Ft Radius |
| ○ Well - USGS | ■ Freshwater Pond/Lake | ⋯ 0.5-Mi Radius |
| ○ Well - Exploratory/Monitor | ■ Medium/High Karst | |
| — Potash Mine Workings | ■ Riverine | |

Figure 2

Aerial Proximity Map
 COG Operating, LLC
 SRO State Com 008H
 GPS: 32.0654, -104.0508
 Eddy County



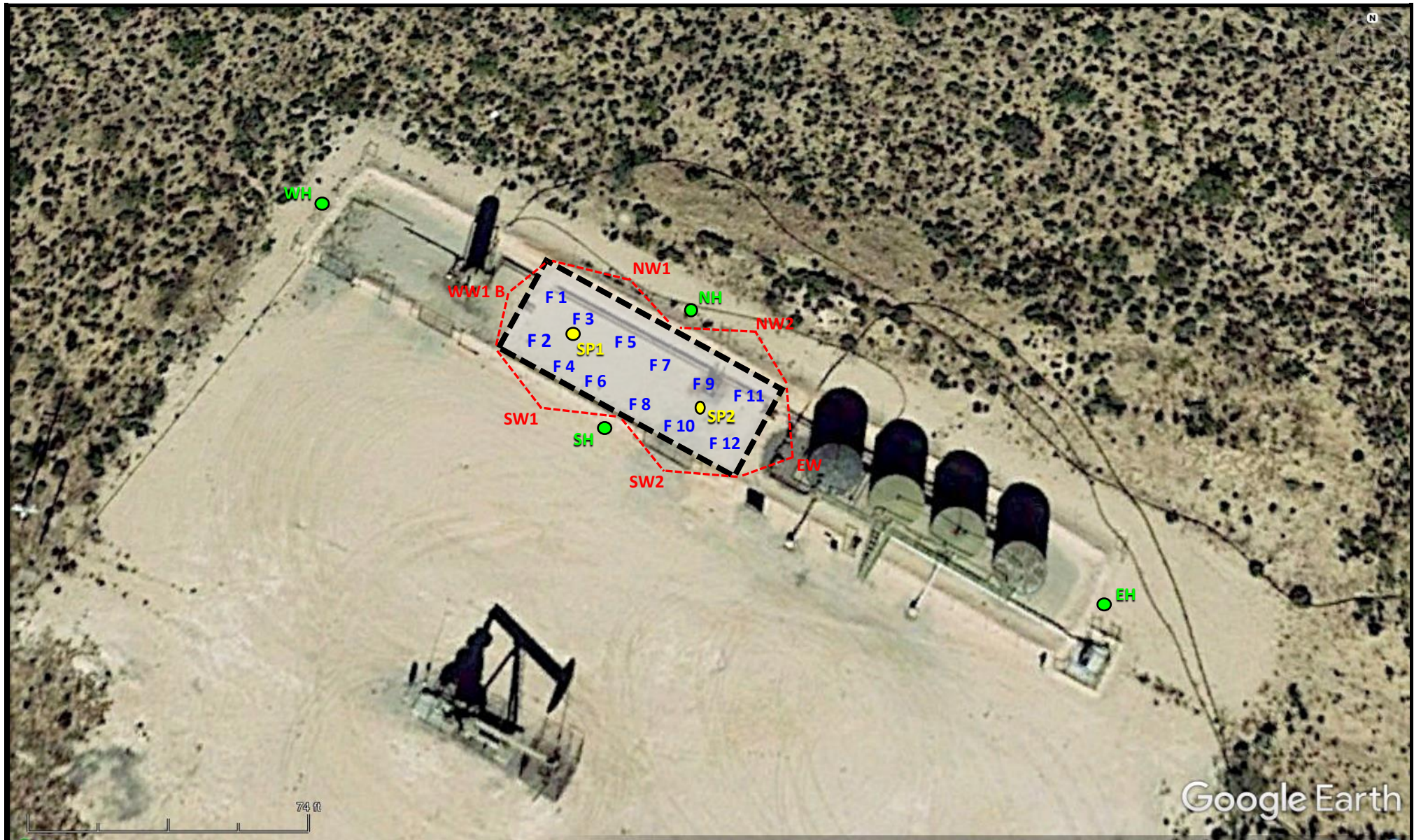
Drafted: bja

Checked: jwl

Date: 1/10/22

Figure 3

Site & Sample Location Map



Legend:

- Excavated Area
- Composite Floor Sample
- Composite Wall Sample
- Auger Hole
- Delineation Sample Location

Figure 3

Site & Sample Location Map
 COG Operating, LLC
 Wild Cap State Com 003H
 GPS: 32.6162, -103.8192
 Eddy County



Revised: bja

Checked: jwl

Date: 1/25/22

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
COG Operating, LLC
Wild Cap State Com 003H
NMOCD Ref. #: nAPP2132141822

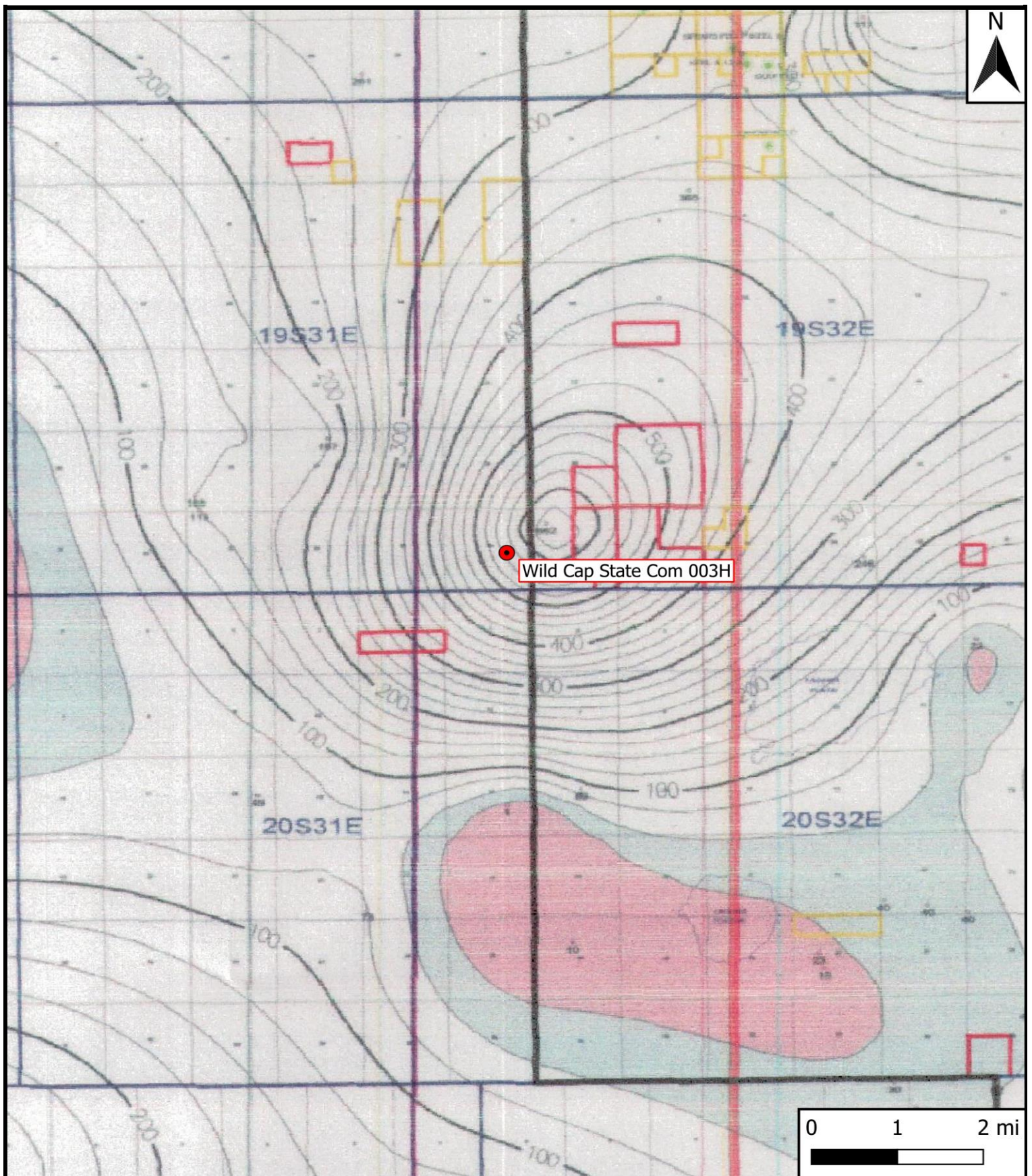
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Delineation Samples											
NH @ Surface	11/15/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH @ 1'	11/15/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH @ Surface	11/15/2021	0	In-Situ	<0.050	<0.300	<10.0	22.6	22.6	<10.0	22.6	<16.0
EH @ 1'	11/15/2021	1	In-Situ	<0.050	<0.300	<10.0	15.5	15.5	<10.0	15.5	<16.0
SH @ Surface	11/15/2021	0	In-Situ	<0.050	<0.300	<10.0	32.2	32.2	<10.0	32.2	<16.0
SH @ 1'	11/15/2021	1	In-Situ	<0.050	<0.300	<10.0	14.6	14.6	<10.0	14.6	<16.0
WH @ Surface	11/15/2021	0	In-Situ	<0.050	<0.300	<10.0	15.5	15.5	<10.0	15.5	32.0
WH @ 1'	11/15/2021	1	In-Situ	0.0810	0.461	<10.0	16.1	16.1	<10.0	16.1	32.0
SP1 @ Surface	11/15/2021	0	Excavated	40.4	915	9,960	40,000	50,000	6,040	56,000	16.0
SP1 @ 7' - R	11/15/2021	7	Excavated	<0.050	<0.300	<10.0	90.3	90.3	<10.0	90.3	32.0
SP2 @ Surface	11/15/2021	0	Excavated	6.03	521	7,540	36,300	43,800	5,970	49,800	48.0
SP2 @ 7' - R	11/15/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
Excavation Samples											
NW1	12/28/2021	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW2	12/28/2021	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW	1/3/2022	0-7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW1	12/28/2021	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW2	1/3/2022	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW1	12/27/2021	0-8	Excavated	24.7	408	6,880	10,400	17,300	761	18,000	16.0
WW1 B	12/30/2021	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
F 1 @ 8'	12/27/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
F 2 @ 6'	12/27/2021	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
F 3 @ 5'	12/27/2021	5	Excavated	51.8	585	4,990	9,120	14,100	996	15,100	48.0
F 3 @ 8'	12/30/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F 4 @ 5'	12/27/2021	5	Excavated	71.0	633	5,700	14,100	19,800	1,800	21,600	16.0
F 4 @ 8'	1/3/2022	8	In-Situ	<0.050	0.367	24.1	789	813	105	918	16.0
F 5 @ 4'	12/28/2021	4	Excavated	35.2	456	3,870	8,450	12,300	861	13,200	32.0
F 5 @ 8'	1/3/2022	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
F 6 @ 4'	12/28/2021	4	Excavated	126	826	6,550	9,010	15,600	852	16,400	<16.0
F 6 @ 8'	1/3/2022	8	In-Situ	<0.050	<0.300	<10.0	29.9	29.9	<10.0	29.9	32.0
F 7 @ 4'	12/28/2021	4	Excavated	102	736	6,070	9,360	15,400	1,050	16,500	<16.0
F 7 @ 8'	1/3/2022	8	In-Situ	<0.050	0.365	22.5	930	953	135	1,090	16.0
F 8 @ 8'	12/30/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F 9 @ 8'	1/3/2022	8	In-Situ	<0.050	<0.300	<10.0	76.0	76.0	<10.0	76.0	32.0
F 10 @ 8'	1/3/2022	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
F 11 @ 6'	12/29/2021	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F 12 @ 7'	12/29/2021	7	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
 COG Operating, LLC
 Wild Cap State Com 003H
 GPS: 32.6162, -103.8192
 Eddy County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 1/10/22



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 00641 POD1		CP	ED	4	1	36	19S	31E		610247	3609634*	604	300	130	170

Average Depth to Water: **130 feet**

Minimum Depth: **130 feet**

Maximum Depth: **130 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 610783.82

Northing (Y): 3609355.51

Radius: 804.67

*UTM location was derived from PLSS - see Help

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

1/25/22 3:49 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



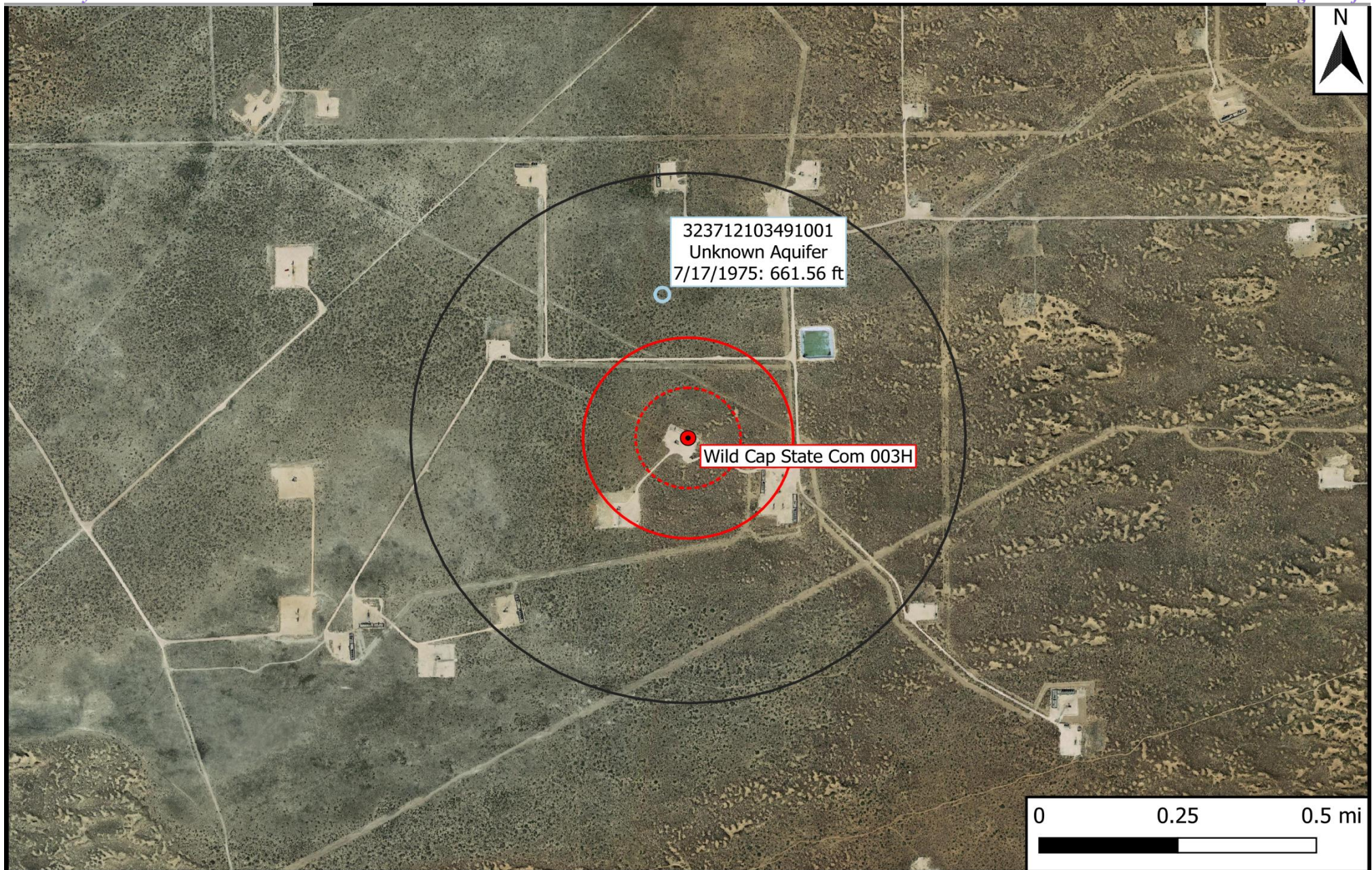
New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)	
		(quarters are smallest to largest)				X	Y
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng
CP 00641	POD1	4	1	36	19S	31E	610247 3609634*
Driller License: 882		Driller Company: LARRY'S DRILLING & PUMP CO.					
Driller Name: FELKINS, LARRY							
Drill Start Date: 02/11/1982		Drill Finish Date: 02/12/1982		Plug Date:			
Log File Date: 02/23/1982		PCW Rev Date:		Source: Shallow			
Pump Type:		Pipe Discharge Size:		Estimated Yield:			
Casing Size:		Depth Well: 300 feet		Depth Water: 130 feet			

*UTM location was derived from PLSS - see Help

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



Legend

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

Figure 5

USGS Well Proximity Map
COG Operating, LLC
SRO State Com 008H
GPS: 32.0654, -104.0508
Eddy County



Drafted: bja

Checked: jwl

Date: 1/10/22



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click for News Bulletins

Groundwater levels for the Nation



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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 323712103491001

Minimum number of levels = 1

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

USGS 323712103491001 19S.32E.31.114

Available data for this site

Groundwater: Field measurements



GO

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°37'12", Longitude 103°49'10" NAD27

Land-surface elevation 3,497 feet above NAVD88

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

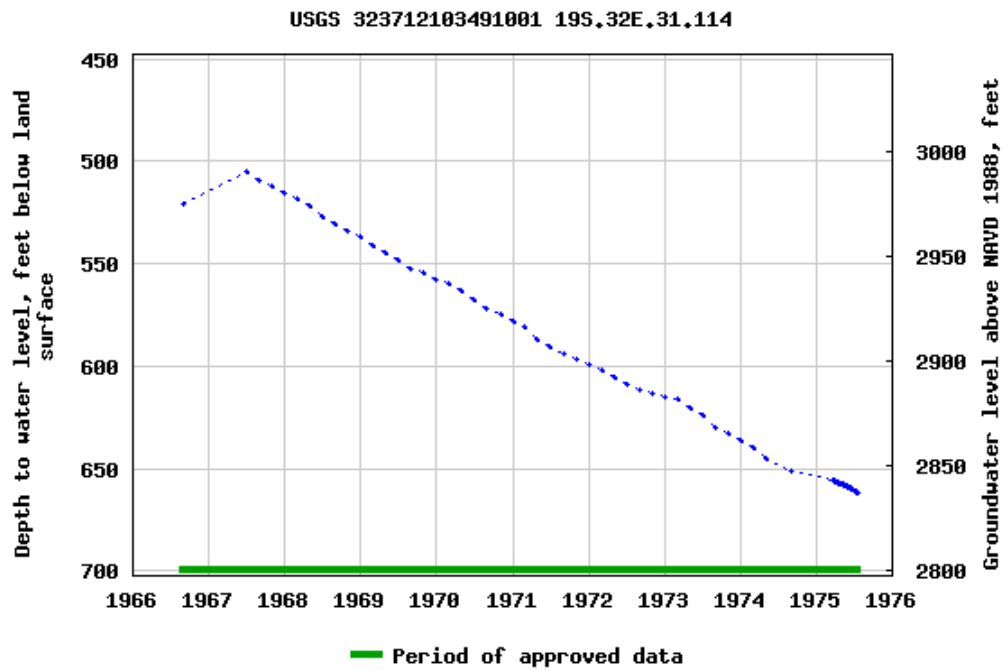
Output formats

[Table of data](#)

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[Graph of data](#)

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

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2022-01-25 15:07:53 EST

0.58 0.52 nadww01



Appendix B

Field Data & Soil Profile Logs



Sample Log

Date: 11/15/21

Project: Wild Cap State #3

Project Number: 15169 Latitude: 32.6162 Longitude: -103.8192

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Project: Wild Cap SH#3
Project Number: Cog 15169

Date: 12.27.21

Project Number. 15169

Latitude: 32.6162

Longitude: -130.8192

[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



Soil Profile

Date: 11/15/2021

Project: Wild Cap State #3

Project Number: 15169 Latitude: 32.6162 Longitude: -103.8192

Depth (ft. bgs)

Description

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Loose Caliche -

Tan Brown Sandy / Sandy Topsoil

Appendix C

Laboratory Analytical Reports



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

November 19, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WILD CAP ST #3

Enclosed are the results of analyses for samples received by the laboratory on 11/16/21 16:30.

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

Received: 11/16/2021
 Reported: 11/19/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NH @ SURFACE (H213277-01)

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	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/18/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					

Surrogate: 1-Chlorooctane 53.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 51.2 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2021
 Reported: 11/19/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NH @ 1' (H213277-02)

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	11/17/2021	ND	2.22	111	2.00	8.33		
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76		
Total BTEX	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/18/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					

Surrogate: 1-Chlorooctane 59.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 56.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2021
 Reported: 11/19/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH @ SURFACE (H213277-03)

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	11/17/2021	ND	2.22	111	2.00	8.33		
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76		
Total BTEx	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/18/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	22.6	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					

Surrogate: 1-Chlorooctane 68.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2021
 Reported: 11/19/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH @ 1' (H213277-04)

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	11/17/2021	ND	2.22	111	2.00	8.33		
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76		
Total BTEx	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/18/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	15.5	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					

Surrogate: 1-Chlorooctane 58.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 56.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/16/2021
 Reported: 11/19/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SH @ SURFACE (H213277-05)

BTX 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	11/17/2021	ND	2.22	111	2.00	8.33		
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76		
Total BTX	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/18/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	32.2	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					

Surrogate: 1-Chlorooctane 66.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 64.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2021
 Reported: 11/19/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SH @ 1' (H213277-06)

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	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/18/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	14.6	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					

Surrogate: 1-Chlorooctane 63.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 61.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/16/2021
 Reported: 11/19/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WH @ SURFACE (H213277-07)

BTX 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	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/18/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	15.5	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					

Surrogate: 1-Chlorooctane 61.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 59.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2021
 Reported: 11/19/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WH @ 1' (H213277-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.081	0.050	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	0.209	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	0.071	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	0.461	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/18/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	16.1	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					

Surrogate: 1-Chlorooctane 65.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 62.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/16/2021
 Reported: 11/19/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H213277-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	40.4	5.00	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	241	5.00	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	188	5.00	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	445	15.0	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTX	915	30.0	11/17/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/18/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	9960	100	11/18/2021	ND	201	101	200	2.96		
DRO >C10-C28*	40000	100	11/18/2021	ND	223	111	200	0.335		
EXT DRO >C28-C36	6040	100	11/18/2021	ND						

Surrogate: 1-Chlorooctane 1760 % 44.3-133

Surrogate: 1-Chlorooctadecane 1270 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/16/2021
 Reported: 11/19/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 7' - R (H213277-10)

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	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	0.111	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	0.062	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEx	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/18/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	90.3	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2021
 Reported: 11/19/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H213277-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.03	2.00	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	87.4	2.00	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	119	2.00	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	309	6.00	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	521	12.0	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/18/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7540	100	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	36300	100	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	5970	100	11/18/2021	ND					

Surrogate: 1-Chlorooctane 1470 % 44.3-133

Surrogate: 1-Chlorooctadecane 1160 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2021
 Reported: 11/19/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 7' - R (H213277-12)

BTX 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	11/18/2021	ND	2.17	109	2.00	5.81	
Toluene*	<0.050	0.050	11/18/2021	ND	2.08	104	2.00	5.44	
Ethylbenzene*	<0.050	0.050	11/18/2021	ND	2.06	103	2.00	6.17	
Total Xylenes*	<0.150	0.150	11/18/2021	ND	6.23	104	6.00	6.46	
Total BTX	<0.300	0.300	11/18/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/18/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

Company Name: <u>ETech Environmental & Safety Solutions</u>				BILL TO				ANALYSIS REQUEST																				
Project Manager: <u>Soci Lowry</u>				P.O. #:																								
Address: <u>2611 W Marland</u>				Company: <u>COG</u>																								
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:																								
Phone #: <u>575-264-9884</u> Fax #:				Address:																								
Project #: <u>15169</u> Project Owner: <u>COG</u>				City:																								
Project Name: <u>Wild cap st #3</u>				State: Zip:																								
Project Location: <u>Rural Lea CO, NM</u>				Phone #:																								
Sampler Name: <u>Miguel Ramirez</u>				Fax #:																								
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(GRAB OR C/COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME														
<u>H213277</u>																												
<u>11</u>	<u>SP2 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>11/15/21</u>			<u>Chlorides</u>	<u>BTEX</u>	<u>TPH</u>										
<u>12</u>	<u>SP2 @ 7' R</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>11/15/21</u>			<u>X</u>	<u>X</u>	<u>X</u>										

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Relinquished By: <u>[Signature]</u>		Date: <u>11-16-21</u>	Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>1630</u>		Time: <u>1630</u>		All Results are emailed. Please provide Email address:		
Relinquished By:		Date:	Received By:		REMARKS: <u>PM@etechenv.com</u>	
Time:		Time:				
Delivered By: (Circle One)		Observed Temp. °C <u>5.5</u>	Sample Condition		CHECKED BY: (Initials) <u>JO</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>5.0</u>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #113	
					Correction Factor -0.6°C	
					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	

FORM-006 R 3.2 10/07/21

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



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

December 29, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WILD CAP ST #3

Enclosed are the results of analyses for samples received by the laboratory on 12/28/21 11:20.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/28/2021
 Reported: 12/29/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 1 @ 8' (H213722-01)

BTX 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	12/28/2021	ND	2.00	99.8	2.00	7.90	
Toluene*	<0.050	0.050	12/28/2021	ND	1.88	93.9	2.00	7.98	
Ethylbenzene*	<0.050	0.050	12/28/2021	ND	1.86	92.8	2.00	8.74	
Total Xylenes*	<0.150	0.150	12/28/2021	ND	5.74	95.7	6.00	8.98	
Total BTX	<0.300	0.300	12/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/28/2021	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2021	ND	206	103	200	2.77	
DRO >C10-C28*	<10.0	10.0	12/28/2021	ND	212	106	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	12/28/2021	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/28/2021
 Reported: 12/29/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 2 @ 6' (H213722-02)

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	12/28/2021	ND	2.00	99.8	2.00	7.90		
Toluene*	<0.050	0.050	12/28/2021	ND	1.88	93.9	2.00	7.98		
Ethylbenzene*	<0.050	0.050	12/28/2021	ND	1.86	92.8	2.00	8.74		
Total Xylenes*	<0.150	0.150	12/28/2021	ND	5.74	95.7	6.00	8.98		
Total BTEX	<0.300	0.300	12/28/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/28/2021	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2021	ND	206	103	200	2.77	
DRO >C10-C28*	<10.0	10.0	12/28/2021	ND	212	106	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	12/28/2021	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/28/2021
 Reported: 12/29/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 3 @ 5' (H213722-03)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	51.8	2.00	12/28/2021	ND	2.00	99.8	2.00	7.90	
Toluene*	238	2.00	12/28/2021	ND	1.88	93.9	2.00	7.98	
Ethylbenzene*	94.7	2.00	12/28/2021	ND	1.86	92.8	2.00	8.74	
Total Xylenes*	200	6.00	12/28/2021	ND	5.74	95.7	6.00	8.98	
Total BTEX	585	12.0	12/28/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/28/2021	ND	416	104	400	7.41		
TPH 8015M		mg/kg		Analyzed By: MS						S-04

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4990	10.0	12/28/2021	ND	206	103	200	2.77	
DRO >C10-C28*	9120	10.0	12/28/2021	ND	212	106	200	6.44	
EXT DRO >C28-C36	996	10.0	12/28/2021	ND					

Surrogate: 1-Chlorooctane 579 % 66.9-136

Surrogate: 1-Chlorooctadecane 358 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/28/2021
 Reported: 12/29/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 4 @ 5' (H213722-04)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	71.0	2.00	12/28/2021	ND	2.00	99.8	2.00	7.90	
Toluene*	262	2.00	12/28/2021	ND	1.88	93.9	2.00	7.98	
Ethylbenzene*	96.3	2.00	12/28/2021	ND	1.86	92.8	2.00	8.74	
Total Xylenes*	204	6.00	12/28/2021	ND	5.74	95.7	6.00	8.98	
Total BTEX	633	12.0	12/28/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/28/2021	ND	416	104	400	7.41		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5700	100	12/28/2021	ND	206	103	200	2.77	
DRO >C10-C28*	14100	100	12/28/2021	ND	212	106	200	6.44	
EXT DRO >C28-C36	1800	100	12/28/2021	ND					

Surrogate: 1-Chlorooctane 833 % 66.9-136

Surrogate: 1-Chlorooctadecane 558 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/28/2021
 Reported: 12/29/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 1 (H213722-05)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	24.7	2.00	12/28/2021	ND	2.00	99.8	2.00	7.90	
Toluene*	154	2.00	12/28/2021	ND	1.88	93.9	2.00	7.98	
Ethylbenzene*	72.5	2.00	12/28/2021	ND	1.86	92.8	2.00	8.74	
Total Xylenes*	157	6.00	12/28/2021	ND	5.74	95.7	6.00	8.98	
Total BTEX	408	12.0	12/28/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/28/2021	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6880	100	12/28/2021	ND	206	103	200	2.77	
DRO >C10-C28*	10400	100	12/28/2021	ND	212	106	200	6.44	
EXT DRO >C28-C36	761	100	12/28/2021	ND					

Surrogate: 1-Chlorooctane 668 % 66.9-136

Surrogate: 1-Chlorooctadecane 425 % 59.5-142

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-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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



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

December 30, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WILD CAP ST #3

Enclosed are the results of analyses for samples received by the laboratory on 12/29/21 14:20.

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

Received: 12/29/2021
 Reported: 12/30/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 5 @ 4' (H213742-01)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	35.2	2.00	12/30/2021	ND	2.04	102	2.00	1.01	QM-07
Toluene*	188	2.00	12/30/2021	ND	2.05	102	2.00	1.27	QM-07
Ethylbenzene*	75.2	2.00	12/30/2021	ND	2.01	101	2.00	1.82	QM-07
Total Xylenes*	157	6.00	12/30/2021	ND	6.08	101	6.00	1.17	QM-07
Total BTX	456	12.0	12/30/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/29/2021	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	3870	100	12/30/2021	ND	202	101	200	5.41		
DRO >C10-C28*	8450	100	12/30/2021	ND	195	97.5	200	9.20		
EXT DRO >C28-C36	861	100	12/30/2021	ND						

Surrogate: 1-Chlorooctane 469 % 66.9-136

Surrogate: 1-Chlorooctadecane 351 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/29/2021
 Reported: 12/30/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 6 @ 4' (H213742-02)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	126	2.00	12/30/2021	ND	2.04	102	2.00	1.01	
Toluene*	348	2.00	12/30/2021	ND	2.05	102	2.00	1.27	
Ethylbenzene*	114	2.00	12/30/2021	ND	2.01	101	2.00	1.82	
Total Xylenes*	238	6.00	12/30/2021	ND	6.08	101	6.00	1.17	
Total BTEX	826	12.0	12/30/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/29/2021	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6550	100	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	9010	100	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	852	100	12/30/2021	ND					

Surrogate: 1-Chlorooctane 544 % 66.9-136

Surrogate: 1-Chlorooctadecane 341 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/29/2021
 Reported: 12/30/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 7 @ 4' (H213742-03)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	102	2.00	12/30/2021	ND	2.04	102	2.00	1.01	
Toluene*	308	2.00	12/30/2021	ND	2.05	102	2.00	1.27	
Ethylbenzene*	105	2.00	12/30/2021	ND	2.01	101	2.00	1.82	
Total Xylenes*	221	6.00	12/30/2021	ND	6.08	101	6.00	1.17	
Total BTEX	736	12.0	12/30/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/29/2021	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6070	100	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	9360	100	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	1050	100	12/30/2021	ND					

Surrogate: 1-Chlorooctane 599 % 66.9-136

Surrogate: 1-Chlorooctadecane 362 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/29/2021
 Reported: 12/30/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 1 (H213742-04)

BTX 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	12/30/2021	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	102	2.00	1.27	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.01	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.08	101	6.00	1.17	
Total BTX	<0.300	0.300	12/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/29/2021	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2021	ND	201	100	200	22.1	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	205	102	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/29/2021
 Reported: 12/30/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 1 (H213742-05)

BTX 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	12/30/2021	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	102	2.00	1.27	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.01	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.08	101	6.00	1.17	
Total BTX	<0.300	0.300	12/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/29/2021	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2021	ND	201	100	200	22.1	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	205	102	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/29/2021
 Reported: 12/30/2021
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 2 (H213742-06)

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	12/30/2021	ND	2.04	102	2.00	1.01		
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	102	2.00	1.27		
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.01	101	2.00	1.82		
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.08	101	6.00	1.17		
Total BTEX	<0.300	0.300	12/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/29/2021	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2021	ND	201	100	200	22.1	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	205	102	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-04	The RPD for the BS/BSD was outside of historical limits.
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



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

January 03, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WILD CAP ST #3

Enclosed are the results of analyses for samples received by the laboratory on 12/30/21 14:00.

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

Received: 12/30/2021
 Reported: 01/03/2022
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: F 11 @ 6' (H213758-01)

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	12/30/2021	ND	2.10	105	2.00	3.08	
Toluene*	<0.050	0.050	12/30/2021	ND	2.02	101	2.00	3.54	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	1.96	98.1	2.00	4.11	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	5.97	99.5	6.00	4.63	
Total BTEX	<0.300	0.300	12/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/30/2021	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	01/03/2022	ND	231	115	200	11.0	
DRO >C10-C28*	<10.0	10.0	01/03/2022	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	01/03/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.3 % 59.5-142

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

Analytical Results For:

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

Received: 12/30/2021
 Reported: 01/03/2022
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: F 12 @ 7' (H213758-02)

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	12/30/2021	ND	2.10	105	2.00	3.08		
Toluene*	<0.050	0.050	12/30/2021	ND	2.02	101	2.00	3.54		
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	1.96	98.1	2.00	4.11		
Total Xylenes*	<0.150	0.150	12/30/2021	ND	5.97	99.5	6.00	4.63		
Total BTEX	<0.300	0.300	12/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/30/2021	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	01/03/2022	ND	231	115	200	11.0	
DRO >C10-C28*	<10.0	10.0	01/03/2022	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	01/03/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.4 % 59.5-142

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

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

Cardinal Laboratories

*=Accredited Analyte

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

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



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

January 04, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WILD CAP ST #3

Enclosed are the results of analyses for samples received by the laboratory on 01/03/22 12:35.

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

Received: 01/03/2022
 Reported: 01/04/2022
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 1 B (H220003-01)

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	01/03/2022	ND	2.06	103	2.00	4.45	
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20	
Total BTEX	<0.300	0.300	01/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	01/04/2022	ND	400	100	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	01/04/2022	ND	211	106	200	0.853	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	222	111	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.5 % 59.5-142

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

Analytical Results For:

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

Received: 01/03/2022
 Reported: 01/04/2022
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 3 @ 8' (H220003-02)

BTX 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	01/03/2022	ND	2.06	103	2.00	4.45	
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20	
Total BTX	<0.300	0.300	01/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/04/2022	ND	400	100	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	01/04/2022	ND	211	106	200	0.853	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	222	111	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.7 % 59.5-142

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*=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

Analytical Results For:

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

Received: 01/03/2022
 Reported: 01/04/2022
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 12/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 8 @ 8' (H220003-03)

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	01/03/2022	ND	2.06	103	2.00	4.45	
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20	
Total BTEx	<0.300	0.300	01/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/04/2022	ND	400	100	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	01/04/2022	ND	211	106	200	0.853	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	222	111	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.2 % 59.5-142

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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

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



• 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				ANALYSIS REQUEST																																									
Project Manager:				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																									
Address: 2617 West Marland				Company COG																																													
City: Hobbs		State: NM		Zip: 88240		Attn: Jacquie Harris																																											
Phone #: (575) 264-9884		Fax #:		Address:																																													
Project #: 15169		Project Owner: COG		City:																																													
Project Name: Wild Cap State #3				State:				Zip:																																									
Project Location: Rural Eddy				Phone #:																																													
Sampler Name: Nommie Casarez				Fax #:																																													
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING																																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)COMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE		ICE / COOL		OTHER:		DATE		TIME																					
H220003		WW1B		C1		1						✓								✓		✓		✓		12/30/21						X		X		X													
2		F3C8		C1		1						✓								✓		✓		✓								X		X		X													
3		F8C8		C1		1						✓								✓		✓		✓								X		X		X													
KAP 1/3/21																																																	
														</																																			



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

January 05, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WILD CAP ST #3

Enclosed are the results of analyses for samples received by the laboratory on 01/04/22 8:40.

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

Received: 01/04/2022
 Reported: 01/05/2022
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 01/03/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 4 @ 8' (H220010-01)

BTX 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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	0.073	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	0.275	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTX	0.367	0.300	01/04/2022	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/04/2022	ND	400	100	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*	24.1	10.0	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	789	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	105	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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

Received: 01/04/2022
 Reported: 01/05/2022
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 01/03/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 5 @ 8' (H220010-02)

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	01/04/2022	ND	2.08	104	2.00	5.66		
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32		
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19		
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91		
Total BTEX	<0.300	0.300	01/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	01/04/2022	ND	400	100	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 99.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.4 % 59.5-142

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

Received: 01/04/2022
 Reported: 01/05/2022
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 01/03/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 6 @ 8' (H220010-03)

BTX 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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/04/2022	ND	400	100	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	29.9	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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

Received: 01/04/2022
 Reported: 01/05/2022
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 01/03/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 7 @ 8' (H220010-04)

BTX 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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	0.075	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	0.264	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTX	0.365	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/04/2022	ND	400	100	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*	22.5	10.0	01/05/2022	ND	208	104	200	2.81	
DRO >C10-C28*	930	10.0	01/05/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	135	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

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

Received: 01/04/2022
 Reported: 01/05/2022
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 01/03/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 9 @ 8' (H220010-05)

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	01/04/2022	ND	2.08	104	2.00	5.66		
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32		
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19		
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91		
Total BTEX	<0.300	0.300	01/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	01/04/2022	ND	400	100	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	76.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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

Received: 01/04/2022
 Reported: 01/05/2022
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 01/03/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 10 @ 8' (H220010-06)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	01/04/2022	ND	400	100	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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

Received: 01/04/2022
 Reported: 01/05/2022
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 01/03/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 2 (H220010-07)

BTX 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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	01/04/2022	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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

Received: 01/04/2022
 Reported: 01/05/2022
 Project Name: WILD CAP ST #3
 Project Number: 15169
 Project Location: COG - EDDY CO NM

Sampling Date: 01/03/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW (H220010-08)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 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	01/04/2022	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Mike Snyder For 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 "Mike Snyder", is written over a horizontal line.

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

Appendix D

Photographic Log

Photographic Log



Photo Number: 1	<div><h3>North West Elevation</h3><p>☀ 124°SE (T) ● 32.616352°, -103.819303° ±16ft ▲ 3501ft</p><p>Wild Cap #3 01 Nov 2021, 10:48:58</p></div>
Photo Direction: Southeast	
Photo Description: View of the affected area.	

Photo Number: 2	<div><h3>South East Elevation</h3><p>☀ 305°NW (T) ● 32.616181°, -103.819042° ±16ft ▲ 3502ft</p><p>Wild Cap #3 01 Nov 2021, 10:49:57</p></div>
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photographic Log


Photo Number: 3	<div>East Elevation ☼ 292°W (T) ● 32.616350°, -103.819305° ±16ft ▲ 3501ft  Wild Cat #3 01 Jan 2022, 10:48:54</div>
Photo Direction: West	
Photo Description: View of the affected area.	

Photo Number: 4	<div>Jan 3, 2022 at 3:11:02 PM Carlsbad NM 38220 United States </div>
Photo Direction: West-Northwest	
Photo Description: View of the excavated area.	

Photographic Log



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

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

Photographic Log



Photo Number: 7	 <p>Jan 7, 2022 at 2:42:07 PM Carlsbad NM 88220 United States</p>
Photo Direction: Northwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 8	 <p>Jan 7, 2022 at 2:42:41 PM Carlsbad NM 88220 United States</p>
Photo Direction: Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 78280

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 78280
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please note for future reference groundwater data cannot be older than 25 years.	2/28/2022