

Incident ID	nRM2026847974
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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 HarrisTitle: Environmental CoordinatorSignature: Date: 3/3/2022email: jacqui.harris@conocophillips.comTelephone: (575)745-1807**OCD Only**

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral ApprovedSignature: Date: 04/20/2022

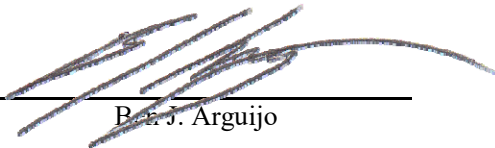
Remediation Summary & Deferral Request


COG Operating, LLC SRO State Com 008H

Eddy County, New Mexico
Unit Letter "P", Section 2, Township 26 South, Range 38 East
Latitude 32.0654 North, Longitude 104.0508 West
NMOCD Reference No. nRM2026847974

Prepared By:

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



Ben J. Arguijo

Joel W. Lowry

Midland • San Antonio • Lubbock • Lovington • 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 & Deferral Request* for the release site known as the SRO State Com 008H (henceforth, "SRO 008H"). The legal description of the site is Unit Letter "P" (SE/SE), Section 2, Township 26 South, Range 38 East, in Eddy County, New Mexico. The property affected by the release is owned by the State of New Mexico and is administered by the New Mexico State Land Office (NMSLO). The geographic coordinates of the point of release are 32.0654° North latitude and 104.0508° West longitude. A topographic map of the area is provided as Figure 1.

On September 2, 2021, while bleeding off gas from the well into a flow-back tank on the pad during a well workover, the flow-back tank and workover rig caught on fire. During initial response activities, the local fire department was called out to extinguish the fire.

The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on September 3, 2021. The Release Notification and Corrective Action (Form C-141) indicated no fluids were released or lost during the incident.

General photographs of the release site are provided in Appendix C. 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 SRO 008H 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?	~60'			
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 checked="" type="checkbox"/> Yes	<input 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 and 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 SRO 008H release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
~60'	Chloride (Cl ⁻)	EPA 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	N/A	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 INITIAL SITE ASSESSMENT

On April 23, 2021, Etech conducted an initial site assessment. During the initial site assessment, two (2) hand-augered soil bores (V 1 and V 2) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, a series of hand-augered soil bores (NH, NHB, EH, EHB, SH, SHB, WH, and WHB) 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 concentrations of chloride utilizing a Hach Quantab ® chloride test kit and for the presence of volatile organic compounds (VOCs) utilizing visual/olfactory senses.

Based on field observations and field test data, ten (10) delineation soil samples (NH @ 0"-6", NHB @ 0"-6", EH 0"-6", EHB 0"-6", SH 0"-6", SHB 0"-6", WH 0"-6", WHB 0"-6", V 1 @ 1', and V 2 @ 3') were submitted to a certified commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined, and soil was not affected above the NMOCD Closure Criteria beyond three (3) feet below ground surface (bgs). However, additional delineation was required to determine the horizontal extent of impacted soil in the areas characterized by sample points NHB, SH, and WHB.

On April 30, 2021, four (4) additional hand-augered soil borings (NHC, EHB, SHB, and WHC) were advanced at the inferred edges of the affected area to further investigate the horizontal extent of impacted soil. Based on field observations and field test data, eight (8) delineation soil samples (NHC @ 0-6", NHC @ 1', EHB @ 1', SHB @ 1', WHC @ 0-6", WHC @ 1', V 1 @ Surf., and V 2 @ Surf.) were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of impacted soil was adequately defined.

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

5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, COG Operating, LLC, proposed the following remediation activities designed to advance the SRO 008H release site toward an approved closure:

- Utilizing mechanical equipment, excavate impacted soil affected above the NMOCD Closure Criteria in the area characterized by sample point V 2 to a depth of three (3) feet bgs. Excavate impacted soil affected above the NMOCD Closure Criteria in the areas characterized by sample points V 1, NHB, WHB, and SH to a depth of one (1) foot bgs. Advance the floor and sidewalls of the excavated areas until laboratory analytical results indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

- Temporarily stockpile excavated soil on-site atop an impermeable liner, pending transport to an NMOCD-permitted surface waste facility for disposal.
- Upon excavating impacted soil affected above the NMOCD Closure Criteria, collect representative five-point composite confirmation soil samples from the excavation sidewalls in each cardinal direction, representing no more than 50 linear feet. Collect a minimum of one (1) representative five-point composite confirmation sample from the base of the excavated area representing every 300 square feet. Collect additional, discrete samples as necessary from wet or visibly stained areas inferred to have been affected by the release.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted, "like" material.
- Upon completion of remediation activities, prepare a *Remediation Summary & Soil Closure Request* detailing field activities and laboratory analytical results from confirmation soil samples.

6.0 REGULATORY APPROVALS & STIPULATIONS

On May 6, 2021, a *Site Assessment Report and Proposed Remediation Plan* (henceforth, "Work Plan") was submitted to the NMOCD proposing the aforementioned activities designed to advance the SRO 008H release site toward regulatory closure. The Work Plan was subsequently approved by the NMOCD, with no added stipulations.

7.0 REMEDIATION ACTIVITIES SUMMARY

On October 27, 2021, remediation activities commenced at the release site. In accordance with the NMOCD-approved Work Plan, impacted soil within the release margins affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria.

Etech collected one (1) confirmation soil sample (FL 1 @ 2') from the floor of the excavated area. The soil sample was 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. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL). The chloride concentration was 160 mg/kg.

On October 28, 2021, Etech collected seven (7) confirmation soil samples (NW 1, EW 1, EW 2, SW 1, SW 3, WW 1, and WW 3) from the sidewalls 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 144 mg/kg in soil sample SW 1 to 544 mg/kg in soil sample NW 1.

On October 29, 2021, Etech collected seven (7) confirmation soil samples (NW 2C, NW 3B, EW 3B, SW 2B R, WW 2B, FL 2 @ 4'-R, and FL 3 @ 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 were below both the applicable NMOCD Closure Criteria and the laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 192 mg/kg in soil sample NW 3B to 2,000 mg/kg in soil sample FL 2 @ 4'-R.

On November 29, 2021, remediation activities resumed at the release site. Based on laboratory analytical results, the excavation was further advanced in the area characterized by soil samples NW 3B, EW 3B, and SW 3. Etech collected three (3) confirmation soil samples (NW 3C, EW 3C, and SW 3B) from the sidewalls of the newly excavated areas. 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 112 mg/kg in soil sample SW 3B to 304 mg/kg in soil sample NW 3C.

On November 30, 2021, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FL 3B. Etech also collected three (3) confirmation soil samples (NW 4, NW 5, and FL 3B @ 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, 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 96.0 mg/kg in soil sample FL 3B @ 4' to 592 mg/kg in soil sample NW 5.

On December 1, 2021, Etech collected four (4) confirmation soil samples (EW 6, FL 4 @ 4', FL 5 @ 3', and FL 6 @ 3') from the sidewall 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 were below both the applicable NMOCD Closure Criteria and the laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 320 mg/kg in soil sample EW6 to 624 mg/kg in soil sample FL 4 @ 4'.

Etech also advanced one (1) hand-augered soil bore (DEF 1) to further characterize the affected area adjacent to and/or beneath the pumpjack pad, production well, and associated piping, appurtenances, and electrical facilities requiring deferral of remediation. During the advancement of the hand-augered soil bore, two (2) soil samples (DEF 1 @ 0' and DEF 1 @ 4') were collected and field-screened utilizing a chloride test kit and/or olfactory/visual senses. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below both the applicable NMOCD Closure Criteria and the laboratory MDL in each of the submitted soil samples. However, additional delineation was required to determine the vertical extent of chloride contamination.

On December 2, 2021, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FL 2 @ 4'-R. Etech collected 12 confirmation soil samples (FL 2B @ 4', FL 7 @ 3', and FL 8 @ 4' through FL 17 @ 4') 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 and TPH concentrations were below both the applicable NMOCD Closure Criteria and the laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 208 mg/kg in soil sample FL 17 @ 4' to 656 mg/kg in soil sample FL 13 @ 4'.

A review of laboratory analytical results and field screens indicated the SRO 008H release may have commingled with contaminated material buried in a historic pit or vault associated with the on-site production well in the areas characterized by sample points FL 4, FL 5, and FL 13. The zone of historical contamination was delineated and remediated concurrently with the SRO 008H release.

On December 3, 2021, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample EW 2. Etech collected three (3) confirmation soil samples (EW 2B, FL 18 @ 4', and FL 19 @ 4') from the sidewall 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 208 mg/kg in soil sample FL 18 @ 4' to 432 mg/kg in soil sample EW 2B.

On December 6, 2021, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample WW 2B. Etech collected one (1) confirmation soil sample (WW 2C) from the sidewall of the newly excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below both the applicable NMOCD Closure Criteria and the laboratory MDL. The chloride concentration was 624 mg/kg.

Etech also advanced two (2) hand-augered soil bores (DEF 2 and DEF 3) to further characterize the affected area adjacent to and/or beneath the pumpjack pad, production well, and associated piping, appurtenances, and electrical facilities requiring deferral of remediation. During the advancement of the hand-augered soil bores, four (4) soil samples (DEF 2 @ 0', DEF 2 @ 4', DEF 3 @ 0', and DEF 3 @ 4') were collected and field-screened utilizing a chloride test kit and/or olfactory/visual senses.

The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond four (4) feet bgs in the areas characterized by sample points DEF 2 and DEF 3.

On December 7, 2021, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FL 4 @ 4' and FL 5 @ 3'. Etech collected 12 confirmation soil samples (FL 4 @ 4.5', FL 5 @ 4.5', and FL 20 @ 4' through FL 29 @ 4') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below both the applicable NMOCD Closure Criteria and the laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 192 mg/kg in soil sample FL 27 @ 4' to 720 mg/kg in soil sample FL 5 @ 4.5'.

Etech also re-entered and further advanced auger hole DEF 1 in an effort to determine the vertical extent of chloride contamination in the area to be deferred. During the advancement of the hand-augered soil bore, one (1) soil sample (DEF 1 @ 4.5') was collected and field-screened utilizing a chloride test kit and/or olfactory/visual senses. The soil sample was submitted to the laboratory for analysis of chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond four and one-half (4.5) feet bgs in the area characterized by sample point DEF 1.

On December 8, 2021, Etech collected two (2) confirmation soil samples (SW 4 and WW 4) from the sidewalls 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 were below both the applicable NMOCD Closure Criteria and the laboratory MDL in each of the submitted soil samples. Chloride concentrations were 256 mg/kg in soil sample SW 4 and 816 mg/kg in soil sample WW 4.

Etech also advanced one (1) additional hand-augered soil bore (WH) along the inferred edge of the affected area to confirm that horizontal delineation of the release had been achieved. During the advancement of the hand-augered soil bore, one (1) soil sample (WH) was collected and field-screened utilizing a chloride test kit and/or olfactory/visual senses. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of impacted soil was adequately defined.

On December 9, 2021, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample WW 2C. Etech collected two (2) confirmation soil samples (WW 2D and FL 9 @ 4') from the sidewall 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 were 192 mg/kg in soil sample WW 2D and 384 mg/kg in soil sample FL 9 @ 4'.

On December 10, 2021, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample WW 4. Etech collected one (1) confirmation soil sample (WW 4B) from the floor of the newly excavated area. The soil sample was 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. BTEX and TPH concentrations were also below the applicable laboratory MDL. The chloride concentration was 368 mg/kg.

On December 13, 2021, Etech collected two (2) confirmation soil samples (FL 5 @ 19' and FL 13 @ 20') 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. Chloride concentrations were 400 mg/kg in soil sample FL 5 @ 19' and 416 mg/kg in soil sample FL 13 @ 20'.

On December 14, 2021, Etech collected one (1) confirmation soil sample (FL 4 @ 23') from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was 416 mg/kg and below the NMOCD Closure Criteria.

The final dimensions of the excavated areas were approximately 30 to 92 feet in length, 18 to 60 feet in width, and two (2) to 20 feet in depth. During the course of remediation activities, approximately 1,700 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal. Approximately 1,700 cubic yards of locally sourced, non-impacted material was imported to the site for use as backfill.

Soil sample locations and the extents of the excavated areas are depicted in Figure 3B, "Site & Sample Location Map (Excavation)". Soil chemistry data is summarized in Table 1. Field data and soil profile logs are provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D.

8.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

The release was limited to the caliche pad of an active production well and 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.

9.0 DEFERRAL REQUEST

Remediation activities were conducted in accordance with an NMOCD-approved Work Plan. Impacted soil affected above the NMOCD Closure Criteria was excavated to the extent practicable and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria. Remediation of impacted soil affected above the NMOCD Closure Criteria remaining in-situ adjacent to and/or beneath the pumpjack pad, production well, electrical facilities, pipes, and/or other appurtenances will be completed upon decommissioning and abandonment of the facility, in accordance with Section 19.15.29.13 NMAC.

Based on laboratory analytical results and field activities conducted to date, Etech recommends COG Operating, LLC, provide copies of this *Remediation Summary & Deferral Request* to the appropriate agencies and cease remediation activities at the SRO 008H release site.

10.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Deferral 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.

11.0 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*

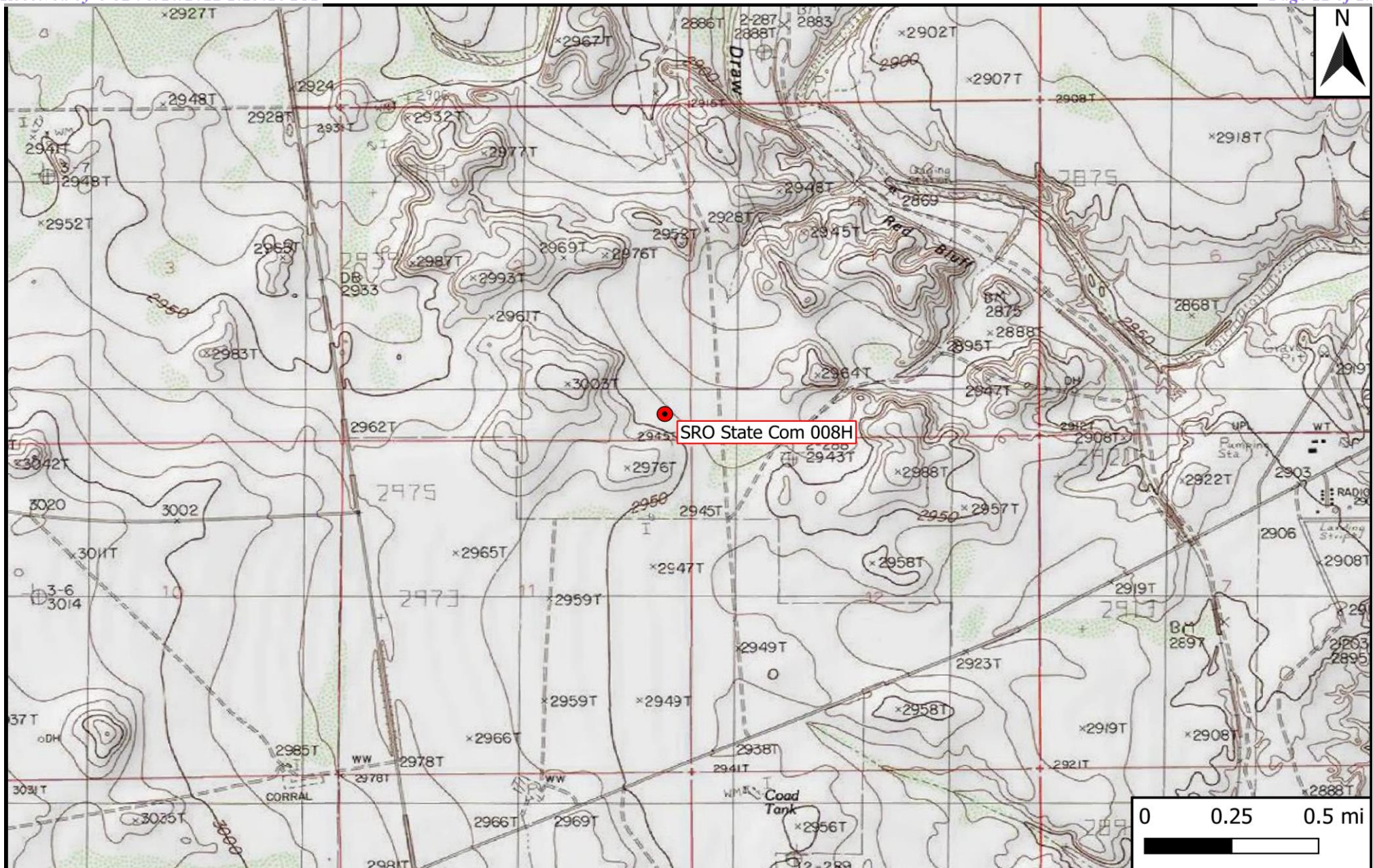
Hobbs Field Office

*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
 SRO State Com 008H
 GPS: 32.0654, -104.0508
 Eddy County

ETECH
 Environmental & Safety Solutions, Inc.

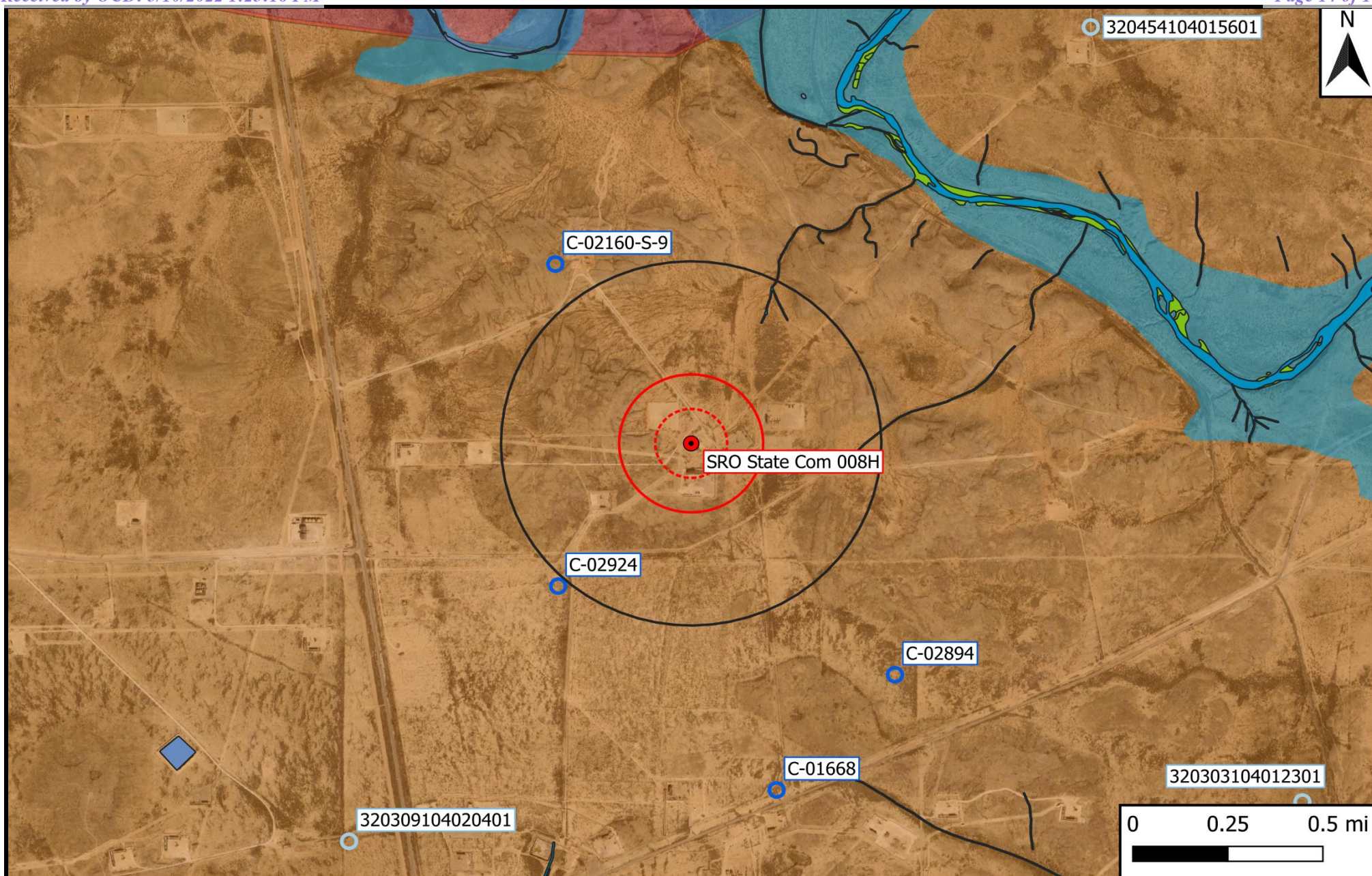
Drafted: bja

Checked: jwl

Date: 12/30/21

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

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 12/30/21

Figures 3A & 3B

Site & Sample Location Maps



Legend

- Sample Point
- Sample Point - Exceedance
- Location of Fire

Figure 3A

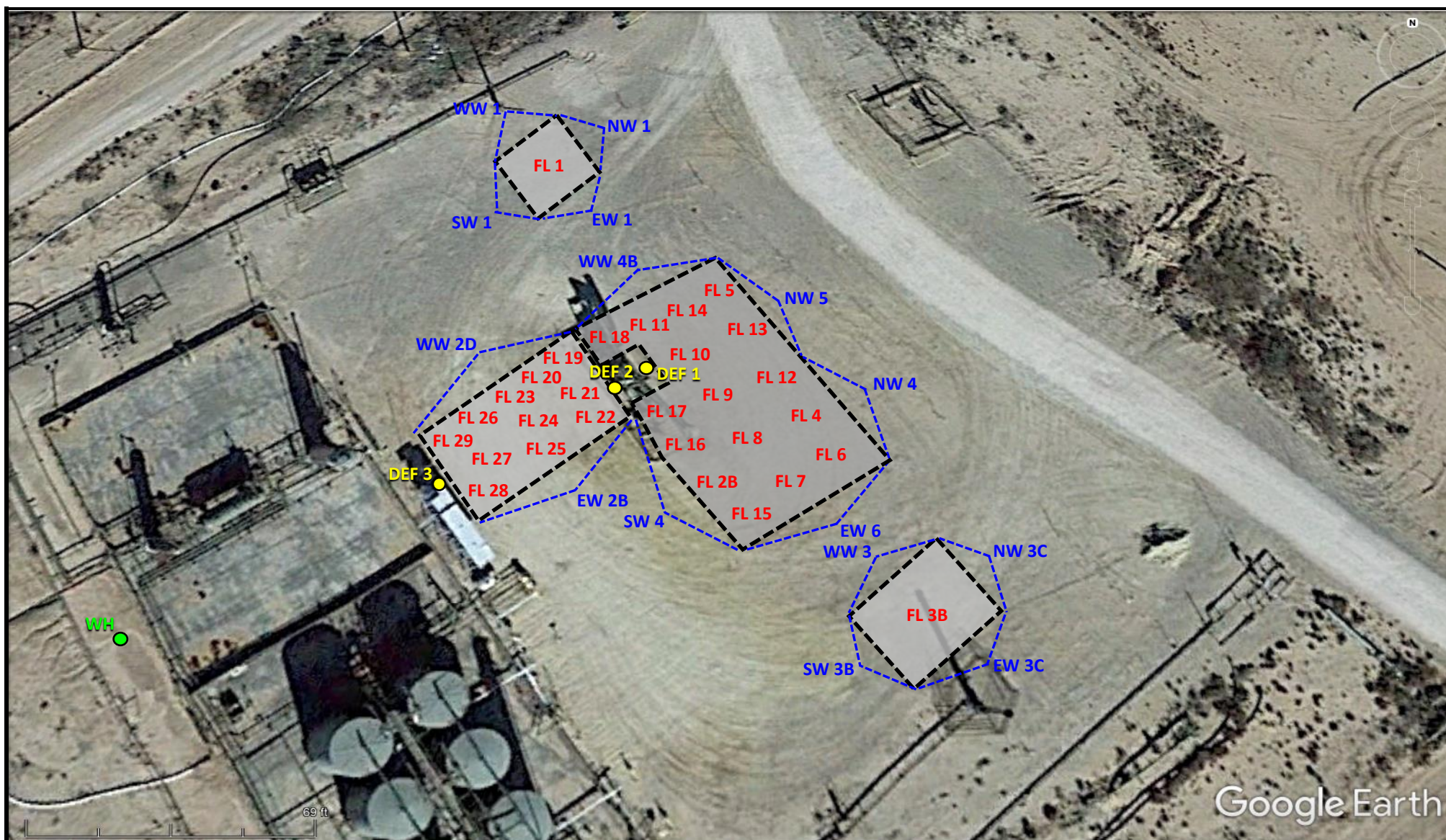
Site & Sample Location Map (Delineation)
 COG Operating, LLC
 SRO State Com 008H
 GPS: 32.0654, -104.0508
 Eddy County



Drafted: mag

Checked: jwl

Date: 5/4/21

**Legend:**

- Excavated Area
- FL** Composite Floor Sample
- Composite Wall Sample
- Deferral Characterization Sample Location
- Delineation Sample Location

Figure 3B

Site & Sample Location Map (Excavation)
 COG Operating, LLC
 SRO State Com 008H
 GPS: 32.0654, -104.0508
 Eddy County



Revised: bja

Checked: jwl

Date: 12/30/21

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil COG Operating, LLC SRO State Com 008H NMOCD Ref. #: nRM2026847974											
NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Delineation & Deferral Samples											
NH @ 0"-6"	4/23/2021	0-0.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
NHB @ 0"-6"	4/23/2021	0-0.5	Excavated	<0.050	<0.300	<10.0	252	252	69.0	321	80.0
NHC @ 0-6"	4/30/2021	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
NHC @ 1'	4/30/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EH 0"-6"	4/23/2021	0-0.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	61.9	61.9	384
EHB 0"-6"	4/23/2021	0-0.5	In-Situ	<0.050	<0.300	<10.0	66.9	66.9	24.5	91.4	144
EHB @ 1'	4/30/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 0"-6"	4/23/2021	0-0.5	Excavated	<0.050	<0.300	<10.0	160	160	32.0	192	416
SHB 0"-6"	4/23/2021	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
SHB @ 1'	4/30/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH 0"-6"	4/23/2021	0-0.5	Excavated	<0.050	<0.300	<10.0	63.8	63.8	<10.0	63.8	384
WHB 0"-6"	4/23/2021	0-0.5	Excavated	<0.050	<0.300	<10.0	2,870	2,870	1,760	4,630	304
WHC @ 0-6"	4/30/2021	0-0.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
WHC @ 1'	4/30/2021	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH	12/8/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
V 1 @ Surface	4/30/2021	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
V 1 @ 1'	4/23/2021	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
V 2 @ Surface	4/30/2021	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
V 2 @ 3'	4/23/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
DEF 1 @ 0'	12/1/2021	0	Deferral	<0.050	<0.300	<10.0	305	305	190	495	15,000
DEF 1 @ 4'	12/1/2021	4	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
DEF 1 @ 4.5'	12/7/2021	4.5	Deferral	-	-	-	-	-	-	-	464
DEF 2 @ 0'	12/6/2021	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,080
DEF 2 @ 4'	12/6/2021	4	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
DEF 3 @ 0'	12/6/2021	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
DEF 3 @ 4'	12/6/2021	4	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
Excavation Samples											
NW 1	10/28/2021	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
NW 2C	10/29/2021	0-1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
NW 3B	10/29/2021	0-1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
NW 3C	11/29/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
NW 4	11/30/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
NW 5	11/30/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
EW 1	10/28/2021	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
EW 2	10/28/2021	0-4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
EW 2B	12/3/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
EW 3B	10/29/2021	0-1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
EW 3C	11/29/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW 6	12/1/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
SW 1	10/28/2021	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144

Dash (): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
COG Operating, LLC
SRO State Com 008H
NMOCD Ref. #: nRM2026847974

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SW 2B R	10/29/2021	0-1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,720
SW 3	10/28/2021	0-1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 3B	11/29/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW 4	12/8/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
WW 1	10/28/2021	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
WW 2B	10/29/2021	0-1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WW 2C	12/6/2021	0-4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	624
WW 2D	12/9/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
WW 3	10/28/2021	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
WW 4	12/8/2021	0-4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	816
WW 4B	12/10/2021	0-19	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 1 @ 2'	10/27/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 2 @ 4'-R	10/29/2021	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,000
FL 2B @ 4'	12/2/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL 3 @ 4'	10/29/2021	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 3B @ 4'	11/30/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 4 @ 4'	12/1/2021	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	624
FL 4 @ 4.5'	12/7/2021	4.5	Excavated	-	-	-	-	-	-	-	640
FL 4 @ 23'	12/14/2021	23	In-Situ	-	-	-	-	-	-	-	416
FL 5 @ 3'	12/1/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
FL 5 @ 4.5'	12/7/2021	4.5	Excavated	-	-	-	-	-	-	-	720
FL 5 @ 19'	12/13/2021	19	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 6 @ 3'	12/1/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 7 @ 3'	12/2/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 8 @ 4'	12/2/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 9 @ 4'	12/2/2021	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	624
FL 9 @ 4'	12/9/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 10 @ 4'	12/2/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 11 @ 4'	12/2/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FL 12 @ 4'	12/2/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 13 @ 4'	12/2/2021	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	656
FL 13 @ 20'	12/13/2021	20	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 14 @ 4'	12/2/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FL 15 @ 4'	12/2/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 16 @ 4'	12/2/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 17 @ 4'	12/2/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 18 @ 4'	12/3/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 19 @ 4'	12/3/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 20 @ 4'	12/7/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 21 @ 4'	12/7/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 22 @ 4'	12/7/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240

Dash (): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil COG Operating, LLC SRO State Com 008H NMOCD Ref. #: nRM2026847974											
NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 23 @ 4'	12/7/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 24 @ 4'	12/7/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 25 @ 4'	12/7/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 26 @ 4'	12/7/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 27 @ 4'	12/7/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 28 @ 4'	12/7/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 29 @ 4'	12/7/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224

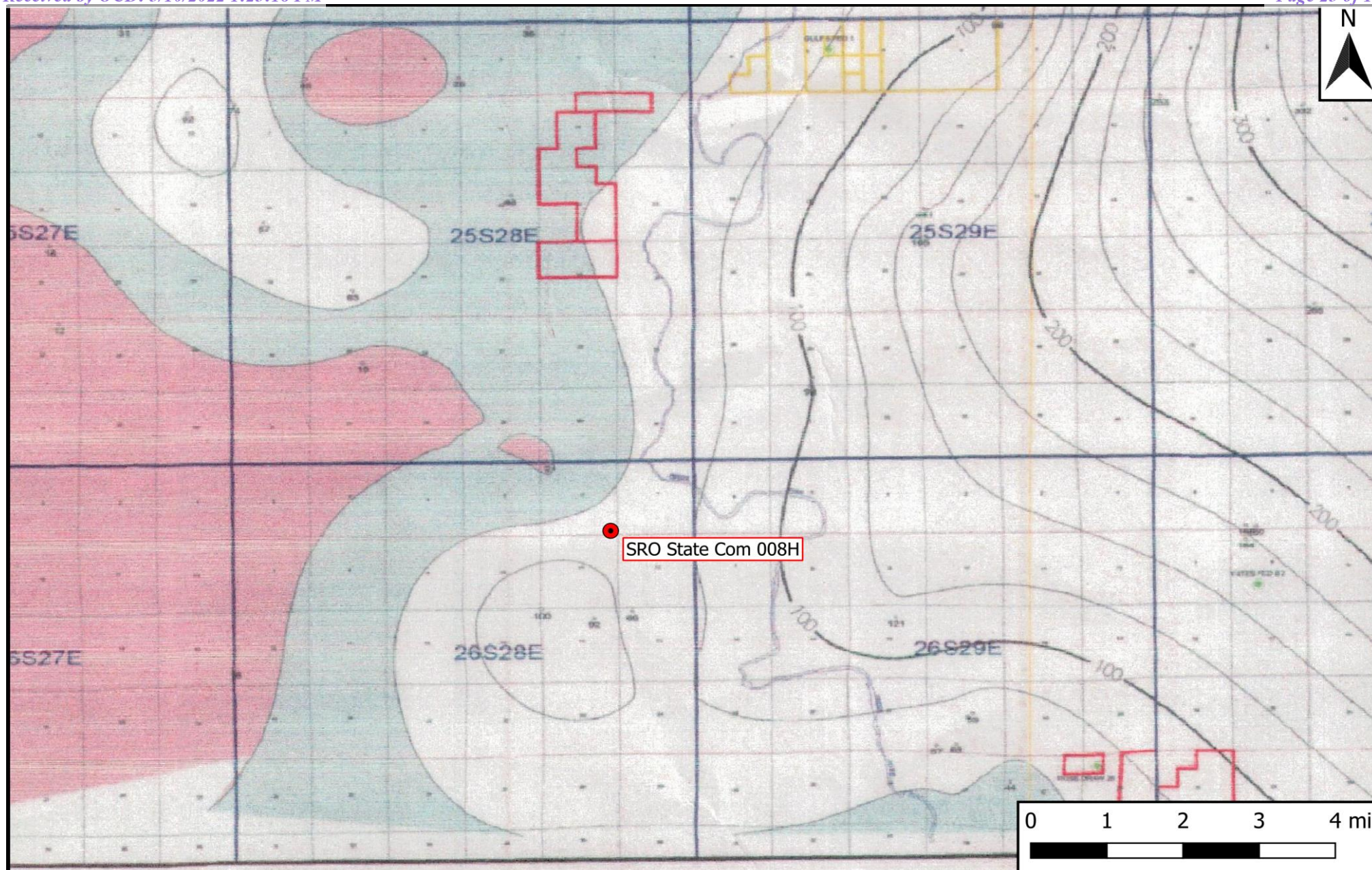
Dash (): Sample not analyzed for that constituent.

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
 SRO State Com 008H
 GPS: 32.0654, -104.0508
 Eddy County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 12/30/21



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	DepthWell	DepthWater	Water Column
C_02924		C	ED	1	3	2	11	26S	28E	589032	3547451*	843			
C_02160 S9		CUB	ED	3	3	2	02	26S	28E	589020	3548868*	976	300	120	180
C_02894		C	ED	2	2	3	12	26S	28E	590458	3547061*	1334	240		
C_02160 S8		CUB	ED	2	3	3	12	26S	28E	590056	3546653*	1498	200	120	80
C_01668		CUB	ED	3	3	12	26S	28E	589957	3546554*	1567	250	100	150	

Average Depth to Water: **113 feet**

Minimum Depth: **100 feet**

Maximum Depth: **120 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 589595.11

Northing (Y): 3548078.84

Radius: 1610

*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.

12/30/21 3:40 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)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02924	1	3	2	11	26S	28E	589032	3547451*

x

Driller License: 1227**Driller Company:** B & H DRILLING**Driller Name:****Drill Start Date:** 08/31/2002**Drill Finish Date:** 10/04/2002**Plug Date:****Log File Date:** 11/04/2002**PCW Rcv Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:****Depth Well:****Depth Water:**

x

*UTM location was derived from PLSS - see Help

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4/13/21 8:38 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	<input type="text"/>	D Number	(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
			Q64	Q16	Q4	Sec	Tws	Rng	X	Y
			3	3	2	02	26S	28E	589020	3548868* 

x

Driller License:

Driller Company:

Driller Name: HEMLER

Drill Start Date:

Drill Finish Date: 06/01/1961

Plug Date:

Log File Date:

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well: 300 feet

Depth Water: 120 feet

x

*UTM location was derived from PLSS - see Help

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4/13/21 8:38 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)


(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number****Q64 Q16 Q4 Sec TwS Rng****X****Y**

C 02894

2 2 3 12 26S 28E

590458 3547061* 

x

Driller License: 1348**Driller Company:** TAYLOR WATER WELL SERVICE**Driller Name:****Drill Start Date:** 03/20/2002**Drill Finish Date:** 03/24/2002**Plug Date:****Log File Date:** 04/04/2002**PCW Rev Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:****Depth Well:** 240 feet**Depth Water:**

x

Water Bearing Stratifications:**Top Bottom Description**

107 112 Other/Unknown

x

*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.

4/13/21 8:38 AM

POINT OF DIVERSION SUMMARY




New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag D Number **C 02160 S8**

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

Q64	Q16	Q4	Sec	Tws	Rng	X	Y
2	3	3	12	26S	28E	590056	3546653* 

(NAD83 UTM in meters)

x

Driller License:**Driller Company:****Driller Name:** HEMLER**Drill Start Date:****Drill Finish Date:** 03/01/1961**Plug Date:****Log File Date:****PCW Rcv Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:****Depth Well:** 200 feet**Depth Water:** 120 feet

x

*UTM location was derived from PLSS - see Help

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4/13/21 8:38 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)


(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number****Q64 Q16 Q4 Sec TwS Rng****X****Y**

C 01668

3 3 12 26S 28E

589957 3546554* 

x

Driller License: 224**Driller Company:** MULLIN, R.J.**Driller Name:****Drill Start Date:** 03/22/1976**Drill Finish Date:** 04/02/1976**Plug Date:****Log File Date:** 04/08/1976**PCW Rcv Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:** 500 GPM**Casing Size:** 16.00**Depth Well:** 250 feet**Depth Water:** 100 feet

x

Water Bearing Stratifications:**Top Bottom Description**

115 135 Limestone/Dolomite/Chalk

135 147 Limestone/Dolomite/Chalk

185 196 Limestone/Dolomite/Chalk

236 238 Limestone/Dolomite/Chalk

x

Casing Perforations:**Top Bottom**

0 115

115 135

135 147

147 196

196 212

212 234

234 241

241 250

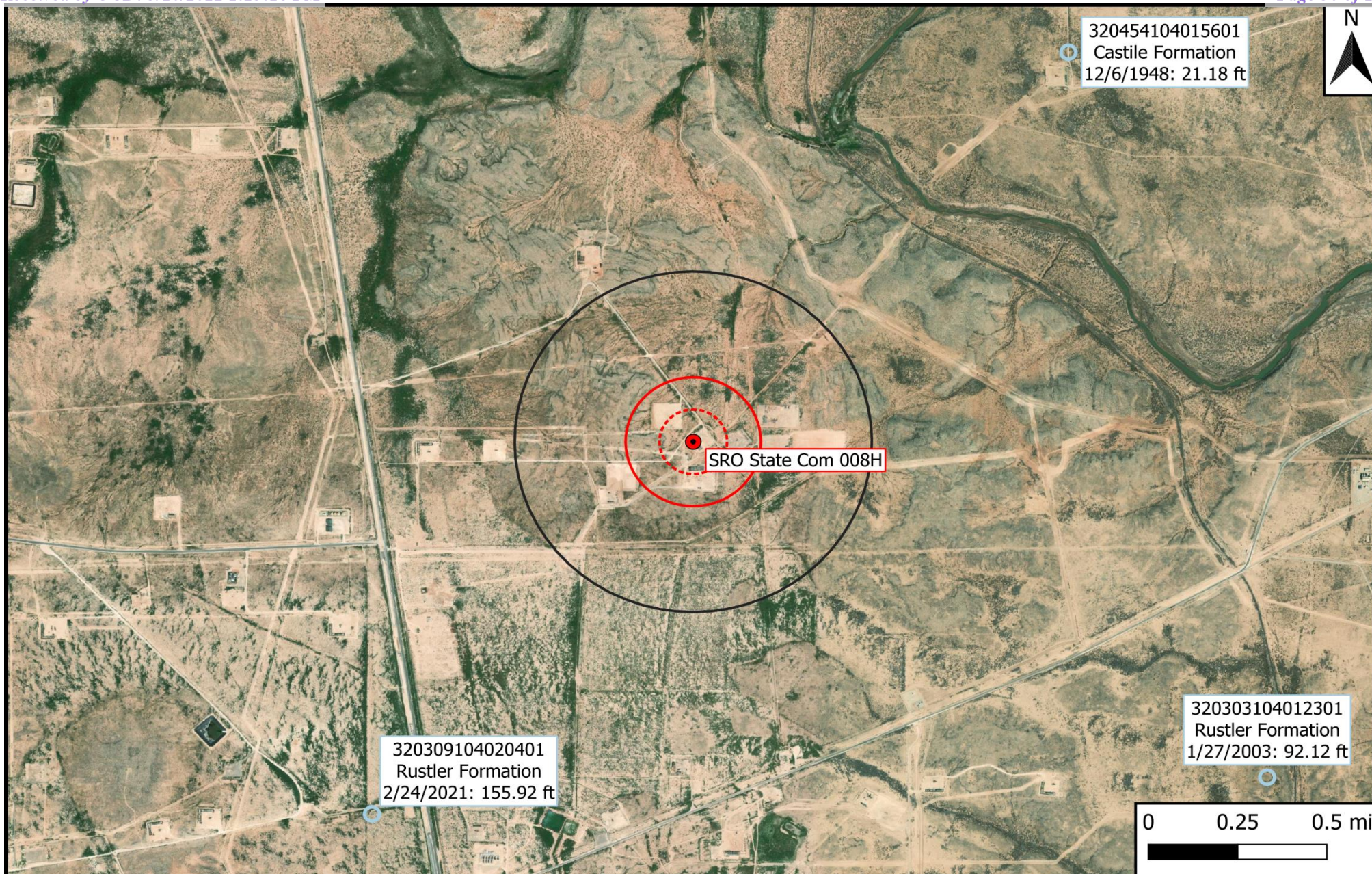
x

*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.

4/13/21 8:39 AM

POINT OF DIVERSION SUMMARY



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: 12/30/21



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USGS Water Resources

Data Category: Geographic Area:

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Search Results -- 1 sites found

Agency code = usgs

site_no list =
• 320303104012301

Minimum number of levels = 1

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

USGS 320303104012301 26S.28E.14.21412

Eddy County, New Mexico

Latitude 32°03'03.0", Longitude 104°01'23.0" NAD27

Land-surface elevation 2,972.40 feet above NGVD29

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1978-01-13			D 72019	116.75				1 Z			A
1983-01-25			D 72019	113.65				1 Z			A
1987-10-14			D 72019	98.72				1 Z			A
1993-05-04			D 72019	91.60				1 S			A
1998-01-22			D 72019	89.85				1 S			A
2003-01-27			D 72019	92.12				1 S	USGS	S	A

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

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Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2021-12-30 17:34:40 EST

0.37 0.25 nadww01





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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320309104020401

Minimum number of levels = 1

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

USGS 320309104020401 26S.28E.14.11111

Eddy County, New Mexico

Latitude 32°02'59.0", Longitude 104°03'58.7" NAD83

Land-surface elevation 2,972.00 feet above NGVD29

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1978-01-13			D	72019	122.34			1	Z		A
1983-01-25			D	72019	127.38			1	Z		A
1987-10-14			D	72019	106.40			1	Z		A
1993-01-05			D	72019	100.42			1	S		A
1998-01-22			D	72019	96.55			1	S		A
2003-01-27			D	72019	97.02			1	S	USGS	A
2013-01-09	20:30 UTC	m	72019	139.12				1	S	USGS	A
2021-02-24	20:05 UTC	m	72019	155.92				1	V	USGS	A

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

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Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2021-12-30 17:36:23 EST

0.38 0.26 nadww01





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Data Category: Geographic Area:

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Groundwater levels for the Nation

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320454104015601

Minimum number of levels = 1

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

USGS 320454104015601 26S.28E.02.112111

Eddy County, New Mexico

Latitude 32°04'54", Longitude 104°01'56" NAD27

Land-surface elevation 2,913 feet above NAVD88

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

This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
<input type="text" value="1948-12-06"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="D"/>	<input type="text" value="72019"/>	<input type="text" value="21.18"/>	<input type="text" value=""/>	<input type="text" value="1"/>	<input type="text" value="Z"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="A"/>

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

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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: 2021-12-30 17:37:33 EST

0.3 0.26 nadww01



Appendix B

Field Data & Soil Profile Logs



Sample Log

Date: 4-28-21

Project: SRO State 8H

Project Number: 14015 Latitude: 32.0654 Longitude: -104.0508

Sample ID	PID/Odor	Chloride Conc.	GPS
NH0-6"	none	224	
NHBO-6"	none	196	
WHO-6"	none	456	
WHBO-6"	none	328	
V101	none	456	
V203	none	456	
SH0-6"	none	508	
SHBO-6"	none	508	
EH0-6"	none	456	
EHBO-6"	light	196	
Excavation Confirmation studies			
FL101	-	659	
FL102	-	412 ** 10/27/21	
NW1	-	500 * 10/28/21	
SW1	-	228 *	
WW1	-	596 *	
EW1	-	392 *	
FL3 @ 1'	-	888	
FL3 @ 2'	-	824	
NW3	-	1461	
EW3	-	888	
SW3	-	549 *	
WW3	-	596 *	
FL3 @ 3'	-	648 6/29/21	
FL3 @ 4'	-	452 **	
NW3B	-	332 **	
EW3B	-	452 **	
FL2 @ 1'	-	1468	
DNW2	-	2464	
EW2	-	572 *	
SW2	-	648	
WW2	-	956	
SW2B	**	1468 (cant go more south due to battery)	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: SRO State 8H

Project Number: 14015 Latitude: 32.0654 Longitude: -104.0508

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = 5W #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: 11 29 21

Project: SROstat 5H

Project Number: 14015

Latitude: 32.0654

Longitude: 104.0508

Sample ID	PID/Odor	Chloride Conc.	GPS
SW3 B	—	504	
EW3 B	—	596	
NW3 B	—	596	
NW4 4000	—	596 548	
FL3 @ 4	—	596	
FL4 @ 1	—	760	
NW5	—	596	
FL5 @ 1	—	1824	
FL4 @ 4	—	444	
FL6 @ 1	—	908	
EW6	—	596	
FL6 @ 3	—	596	
Def 1	Light	over 2536	
Def 1 @ 4	—	364	
FL5 @ 3	—	596	
FL2 @ 0	—	908	
FL2 @ 4	—	404	
FL7 @ 3	—	504	
FL8 @ 4	—	364	
FL9 @ 4	—	596	
FL10 @ 4	—	596	
FL11 @ 4	—	504	
FL12 @ 4	—	404	
FL13 @ 4	—	596	
FL14 @ 4	—	404	
FL15 @ 4	—	364	
FL16 @ 4	—	364	
FL17 @ 4	—	404	
EW2 B	—	596	
FL18 @ 4	—	596	
FL19 @ 4	—	404	
FL20 @ 4	—	332	
FL21 @ 4	—	332	
FL22 @ 4	—	500	
FL23 @ 4	—	372	
FL24 @ 4	—	500	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Sample Log

Date: 11/29/21

Project: SRO State 8H

Project Number: 14015

Latitude: 32.0654

Longitude: 104.0508

[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: _____

Project: SRO State 8H

Project Number: 14015 Latitude: 32.0654 Longitude: -104.0508

Depth (ft. bgs)	Description
1	0"-6" caliche
2	1'-3' top soil
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
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36	
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39	
40	

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: South-Southeast	
Coordinates: 32.065734, -104.050429	
Photo Description: View of the affected area.	

Photo Number: 2	
Photo Direction: Northeast	
Coordinates: 32.065279, -104.050300	
Photo Description: View of the affected area.	

Photographic Log




Photo Number: 3	
Photo Direction: North	
Coordinates: 32.065279,-104.050300	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: East-Southeast	
Coordinates: 32.065527,-104.050485	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	
Photo Direction: Northwest	
Coordinates: 32.065334,-104.050353	
Photo Description: View of the excavated area.	

Photo Number: 6	
Photo Direction: Southeast	
Coordinates: 32.065602,-104.050415	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 7	 <p>Dec 3, 2021 at 8:11:12 AM Carlsbad NM 88220 United States</p>
Photo Direction: East	
Coordinates: 32.065421,-104.050384	
Photo Description: View of the excavated area.	

Photo Number: 8	 <p>Dec 3, 2021 at 8:11:50 AM Carlsbad NM 88220 United States</p>
Photo Direction: Southwest	
Coordinates: 32.065421,-104.050384	
Photo Description: View of the excavated area.	

Photographic Log




Photo Number: 9	 <p>Dec 9, 2021 at 11:34:29 AM Carlsbad NM 88220 United States</p>
Photo Direction: North	
Coordinates: 32.065359,-104.050420	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>Dec 9, 2021 at 11:35:05 AM Carlsbad NM 88220 United States</p>
Photo Direction: West	
Coordinates: 32.065375,-104.050377	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	
Photo Direction: Northwest	
Coordinates: 32.065372,-104.050216	
Photo Description: View of the excavated area.	

Photo Number: 12	
Photo Direction: Southeast	
Coordinates: 32.065372,-104.050216	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 13	<div>Dec 14, 2021 at 2:35:52 PM Carlsbad NM 88220 United States</div> 
Photo Direction: East-Northeast	
Coordinates: 32.065366,-104.050356	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 14	<div>Dec 14, 2021 at 2:36:31 PM Carlsbad NM 88220 United States</div> 
Photo Direction: South	
Coordinates: 32.065459,-104.050126	
Photo Description: View of the remediated area after backfill and regrading.	

Appendix D

Laboratory Analytical Reports



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

April 28, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SRO STATE #8H

Enclosed are the results of analyses for samples received by the laboratory on 04/23/21 12:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	04/23/2021	Sampling Date:	04/23/2021
Reported:	04/28/2021	Sampling Type:	Soil
Project Name:	SRO STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	14015	Sample Received By:	Tamara Oldaker
Project Location:	CP - RURAL EDDY CO		

Sample ID: NH @ 0" - 6" (H211044-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2021	ND	2.05	103	2.00	4.35	
Toluene*	<0.050	0.050	04/23/2021	ND	1.97	98.7	2.00	3.33	
Ethylbenzene*	<0.050	0.050	04/23/2021	ND	1.95	97.5	2.00	2.52	
Total Xylenes*	<0.150	0.150	04/23/2021	ND	5.69	94.8	6.00	2.81	
Total BTEX	<0.300	0.300	04/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 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	256	16.0	04/27/2021	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2021	ND	223	112	200	5.70	
DRO >C10-C28*	<10.0	10.0	04/26/2021	ND	225	112	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/26/2021	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-133

Surrogate: 1-Chlorooctadecane 119 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/23/2021
 Reported: 04/28/2021
 Project Name: SRO STATE #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NHB @ 0" - 6" (H211044-02)

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	04/23/2021	ND	2.05	103	2.00	4.35		
Toluene*	<0.050	0.050	04/23/2021	ND	1.97	98.7	2.00	3.33		
Ethylbenzene*	<0.050	0.050	04/23/2021	ND	1.95	97.5	2.00	2.52		
Total Xylenes*	<0.150	0.150	04/23/2021	ND	5.69	94.8	6.00	2.81		
Total BTX	<0.300	0.300	04/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	80.0	16.0	04/27/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2021	ND	223	112	200	5.70	
DRO >C10-C28*	252	10.0	04/26/2021	ND	225	112	200	2.63	
EXT DRO >C28-C36	69.0	10.0	04/26/2021	ND					

Surrogate: 1-Chlorooctane 120 % 44.3-133

Surrogate: 1-Chlorooctadecane 127 % 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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/23/2021
 Reported: 04/28/2021
 Project Name: SRO STATE #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WH 0" - 6" (H211044-03)

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	04/23/2021	ND	2.05	103	2.00	4.35	
Toluene*	<0.050	0.050	04/23/2021	ND	1.97	98.7	2.00	3.33	
Ethylbenzene*	<0.050	0.050	04/23/2021	ND	1.95	97.5	2.00	2.52	
Total Xylenes*	<0.150	0.150	04/23/2021	ND	5.69	94.8	6.00	2.81	
Total BTX	<0.300	0.300	04/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 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	384	16.0	04/27/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2021	ND	223	112	200	5.70	
DRO >C10-C28*	63.8	10.0	04/26/2021	ND	225	112	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/26/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/23/2021
 Reported: 04/28/2021
 Project Name: SRO STATE #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WHB 0" - 6" (H211044-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2021	ND	2.05	103	2.00	4.35		
Toluene*	<0.050	0.050	04/23/2021	ND	1.97	98.7	2.00	3.33		
Ethylbenzene*	<0.050	0.050	04/23/2021	ND	1.95	97.5	2.00	2.52		
Total Xylenes*	<0.150	0.150	04/23/2021	ND	5.69	94.8	6.00	2.81		
Total BTEX	<0.300	0.300	04/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	304	16.0	04/27/2021	ND	400	100	400	3.92	

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*	<10.0	10.0	04/26/2021	ND	223	112	200	5.70	
DRO >C10-C28*	2870	10.0	04/26/2021	ND	225	112	200	2.63	
EXT DRO >C28-C36	1760	10.0	04/26/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-133

Surrogate: 1-Chlorooctadecane 193 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/23/2021
 Reported: 04/28/2021
 Project Name: SRO STATE #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SH 0" - 6" (H211044-05)

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	04/23/2021	ND	2.05	103	2.00	4.35	
Toluene*	<0.050	0.050	04/23/2021	ND	1.97	98.7	2.00	3.33	
Ethylbenzene*	<0.050	0.050	04/23/2021	ND	1.95	97.5	2.00	2.52	
Total Xylenes*	<0.150	0.150	04/23/2021	ND	5.69	94.8	6.00	2.81	
Total BTX	<0.300	0.300	04/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	416	16.0	04/27/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2021	ND	223	112	200	5.70	
DRO >C10-C28*	160	10.0	04/26/2021	ND	225	112	200	2.63	
EXT DRO >C28-C36	32.0	10.0	04/26/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-133

Surrogate: 1-Chlorooctadecane 123 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/23/2021
 Reported: 04/28/2021
 Project Name: SRO STATE #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SHB 0" - 6" (H211044-06)

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	04/23/2021	ND	2.05	103	2.00	4.35	
Toluene*	<0.050	0.050	04/23/2021	ND	1.97	98.7	2.00	3.33	
Ethylbenzene*	<0.050	0.050	04/23/2021	ND	1.95	97.5	2.00	2.52	
Total Xylenes*	<0.150	0.150	04/23/2021	ND	5.69	94.8	6.00	2.81	
Total BTX	<0.300	0.300	04/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	400	16.0	04/27/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2021	ND	223	112	200	5.70	
DRO >C10-C28*	<10.0	10.0	04/26/2021	ND	225	112	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/26/2021	ND					

Surrogate: 1-Chlorooctane 122 % 44.3-133

Surrogate: 1-Chlorooctadecane 126 % 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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/23/2021
 Reported: 04/28/2021
 Project Name: SRO STATE #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 0" - 6" (H211044-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2021	ND	2.05	103	2.00	4.35		
Toluene*	<0.050	0.050	04/23/2021	ND	1.97	98.7	2.00	3.33		
Ethylbenzene*	<0.050	0.050	04/23/2021	ND	1.95	97.5	2.00	2.52		
Total Xylenes*	<0.150	0.150	04/23/2021	ND	5.69	94.8	6.00	2.81		
Total BTEx	<0.300	0.300	04/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 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	384	16.0	04/27/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2021	ND	223	112	200	5.70	
DRO >C10-C28*	<10.0	10.0	04/26/2021	ND	225	112	200	2.63	
EXT DRO >C28-C36	61.9	10.0	04/26/2021	ND					

Surrogate: 1-Chlorooctane 93.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.0 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/23/2021
 Reported: 04/28/2021
 Project Name: SRO STATE #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EHB 0" - 6" (H211044-08)

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	04/23/2021	ND	2.05	103	2.00	4.35	
Toluene*	<0.050	0.050	04/23/2021	ND	1.97	98.7	2.00	3.33	
Ethylbenzene*	<0.050	0.050	04/23/2021	ND	1.95	97.5	2.00	2.52	
Total Xylenes*	<0.150	0.150	04/23/2021	ND	5.69	94.8	6.00	2.81	
Total BTX	<0.300	0.300	04/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 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	144	16.0	04/27/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2021	ND	223	112	200	5.70	
DRO >C10-C28*	66.9	10.0	04/26/2021	ND	225	112	200	2.63	
EXT DRO >C28-C36	24.5	10.0	04/26/2021	ND					

Surrogate: 1-Chlorooctane 120 % 44.3-133

Surrogate: 1-Chlorooctadecane 128 % 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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/23/2021
 Reported: 04/28/2021
 Project Name: SRO STATE #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 1 @ 1' (H211044-09)

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	04/23/2021	ND	2.05	103	2.00	4.35		
Toluene*	<0.050	0.050	04/23/2021	ND	1.97	98.7	2.00	3.33		
Ethylbenzene*	<0.050	0.050	04/23/2021	ND	1.95	97.5	2.00	2.52		
Total Xylenes*	<0.150	0.150	04/23/2021	ND	5.69	94.8	6.00	2.81		
Total BTX	<0.300	0.300	04/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 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	224	16.0	04/27/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2021	ND	223	112	200	5.70	
DRO >C10-C28*	<10.0	10.0	04/26/2021	ND	225	112	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/26/2021	ND					

Surrogate: 1-Chlorooctane 123 % 44.3-133

Surrogate: 1-Chlorooctadecane 127 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/23/2021
 Reported: 04/28/2021
 Project Name: SRO STATE #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 2 @ 3' (H211044-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2021	ND	2.05	103	2.00	4.35		
Toluene*	<0.050	0.050	04/23/2021	ND	1.97	98.7	2.00	3.33		
Ethylbenzene*	<0.050	0.050	04/23/2021	ND	1.95	97.5	2.00	2.52		
Total Xylenes*	<0.150	0.150	04/23/2021	ND	5.69	94.8	6.00	2.81		
Total BTEx	<0.300	0.300	04/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 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	320	16.0	04/27/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2021	ND	223	112	200	5.70	
DRO >C10-C28*	<10.0	10.0	04/26/2021	ND	225	112	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/26/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 113 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

Company Name: Etch Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: Joel Lowery				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
Address: P.O. Box 301				Company: Etch																	
City: Lovington		State: NM Zip: 88260		Attn:																	
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																	
Project #: 14015		Project Owner: COROCO PHILLIPS		City:																	
Project Name: SRO State 8H				State: Zip:																	
Project Location: Rural EDDY				Phone #:																	
Sampler Name: Spencer Blackwood				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(GRAB OR (COMP. # CONTAINERS	MATRIX				PRESERV.	SAMPLING													
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME								
H211044																					
	1 NH@0'-6"	C			✓				✓			4-23-21		✓	✓	✓					
	2 NH@0'-6"	C			✓				✓					✓	✓	✓					
	3 WH@0'-6"	C			✓				✓					✓	✓	✓					
	4 WH@0'-6"	C			✓				✓					✓	✓	✓					
	5 SH@0'-6"	C			✓				✓					✓	✓	✓					
	6 SH@0'-6"	C			✓				✓					✓	✓	✓					
	7 EH@0'-6"	C			✓				✓					✓	✓	✓					
	8 EH@0'-6"	C			✓				✓					✓	✓	✓					
	9 V1@1'	C			✓				✓					✓	✓	✓					
	10 V2@3'	C			✓				✓					✓	✓	✓					
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																					
Relinquished By:		Date:	Received By:		Phone Result:		Fax Result:		REMARKS:												
Spencer Blackwood		4-23-21	Tamarra Oldaker		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No														
Relinquished By:		Date:	Received By:		Add'l Phone #:		Add'l Fax #:														
		Time:																			
Delivered By: (Circle One)		Sample Condition		CHECKED BY:																	
Sampler - UPS - Bus - Other:		Cool Intact		(Initials)																	
1.6c #113		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		T.D.																	

FORM-006
Revision 1.0

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



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

May 03, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 04/30/21 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/30/2021
 Reported: 05/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/30/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: V 1 @ SURFACE (H211113-01)

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	05/03/2021	ND	1.99	99.3	2.00	4.00		
Toluene*	<0.050	0.050	05/03/2021	ND	1.94	97.0	2.00	3.88		
Ethylbenzene*	<0.050	0.050	05/03/2021	ND	1.90	95.2	2.00	2.42		
Total Xylenes*	<0.150	0.150	05/03/2021	ND	5.68	94.7	6.00	1.77		
Total BTEX	<0.300	0.300	05/03/2021	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	80.0	16.0	05/03/2021	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	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					

Surrogate: 1-Chlorooctane 59.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 57.5 % 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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/30/2021
 Reported: 05/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/30/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: V 2 @ SURFACE (H211113-02)

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	05/03/2021	ND	1.99	99.3	2.00	4.00	
Toluene*	<0.050	0.050	05/03/2021	ND	1.94	97.0	2.00	3.88	
Ethylbenzene*	<0.050	0.050	05/03/2021	ND	1.90	95.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	05/03/2021	ND	5.68	94.7	6.00	1.77	
Total BTEx	<0.300	0.300	05/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	256	16.0	05/03/2021	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	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					

Surrogate: 1-Chlorooctane 63.9 % 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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/30/2021
 Reported: 05/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/30/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: NHC @ 0-6" (H211113-03)

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	05/03/2021	ND	1.99	99.3	2.00	4.00		
Toluene*	<0.050	0.050	05/03/2021	ND	1.94	97.0	2.00	3.88		
Ethylbenzene*	<0.050	0.050	05/03/2021	ND	1.90	95.2	2.00	2.42		
Total Xylenes*	<0.150	0.150	05/03/2021	ND	5.68	94.7	6.00	1.77		
Total BTX	<0.300	0.300	05/03/2021	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	208	16.0	05/03/2021	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	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					

Surrogate: 1-Chlorooctane 61.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 59.6 % 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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/30/2021
 Reported: 05/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/30/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: NHC @ 1' (H211113-04)

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	05/03/2021	ND	1.99	99.3	2.00	4.00	
Toluene*	<0.050	0.050	05/03/2021	ND	1.94	97.0	2.00	3.88	
Ethylbenzene*	<0.050	0.050	05/03/2021	ND	1.90	95.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	05/03/2021	ND	5.68	94.7	6.00	1.77	
Total BTX	<0.300	0.300	05/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	16.0	16.0	05/03/2021	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	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					

Surrogate: 1-Chlorooctane 56.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 53.5 % 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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/30/2021
 Reported: 05/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/30/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: EHB @ 1' (H211113-05)

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	05/03/2021	ND	1.99	99.3	2.00	4.00	
Toluene*	<0.050	0.050	05/03/2021	ND	1.94	97.0	2.00	3.88	
Ethylbenzene*	<0.050	0.050	05/03/2021	ND	1.90	95.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	05/03/2021	ND	5.68	94.7	6.00	1.77	
Total BTX	<0.300	0.300	05/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	05/03/2021	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	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					

Surrogate: 1-Chlorooctane 64.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 62.6 % 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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/30/2021
 Reported: 05/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/30/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SHB @ 1' (H211113-06)

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	05/03/2021	ND	1.99	99.3	2.00	4.00		
Toluene*	<0.050	0.050	05/03/2021	ND	1.94	97.0	2.00	3.88		
Ethylbenzene*	<0.050	0.050	05/03/2021	ND	1.90	95.2	2.00	2.42		
Total Xylenes*	<0.150	0.150	05/03/2021	ND	5.68	94.7	6.00	1.77		
Total BTX	<0.300	0.300	05/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	05/03/2021	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	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					

Surrogate: 1-Chlorooctane 48.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 45.9 % 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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/30/2021
 Reported: 05/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/30/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: WHC @ 0-6" (H211113-07)

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	05/03/2021	ND	1.99	99.3	2.00	4.00	
Toluene*	<0.050	0.050	05/03/2021	ND	1.94	97.0	2.00	3.88	
Ethylbenzene*	<0.050	0.050	05/03/2021	ND	1.90	95.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	05/03/2021	ND	5.68	94.7	6.00	1.77	
Total BTX	<0.300	0.300	05/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	192	16.0	05/03/2021	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	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					

Surrogate: 1-Chlorooctane 60.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 58.7 % 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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 04/30/2021
 Reported: 05/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 04/30/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: WHC @ 1' (H211113-08)

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	05/03/2021	ND	1.99	99.3	2.00	4.00		
Toluene*	<0.050	0.050	05/03/2021	ND	1.94	97.0	2.00	3.88		
Ethylbenzene*	<0.050	0.050	05/03/2021	ND	1.90	95.2	2.00	2.42		
Total Xylenes*	<0.150	0.150	05/03/2021	ND	5.68	94.7	6.00	1.77		
Total BTEx	<0.300	0.300	05/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	05/03/2021	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	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					

Surrogate: 1-Chlorooctane 68.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.						BILL TO						ANALYSIS REQUEST															
Project Manager: Joel Lowry						P.O. #:						<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: P.O. Box 301						Company: Conoco Phillips																					
City: Lovington			State: NM Zip: 88260			Attn:																					
Phone #: (575) 396-2378			Fax #: (575) 396-1429			Address:																					
Project #: 14015			Project Owner: Conoco Phillips			City:																					
Project Name: SRO State 2 H						State: Zip:																					
Project Location: Rural Eldy Co., NM						Phone #:																					
Sampler Name: Miguel Ramirez						Fax #:																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.		Sample I.D.		(G) RAB OR (C) JOMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
H211113																											
1 VIA surface				G	1			X				X			4-30-21		X	X	X								
2 VA @ surface				G	1			X				X			4-30-21		X	X	X								
3 NMC @ 0-6"				G	1			X				V			4-30-21		X	X	X								
4 NHC @ 1'				G	1			X				V			4-30-21		X	X	X								
5 EHB @ 1'				G	1			X				X			4-30-21		X	X	X								
6 SHB @ 1'				G	1			X				X			4-30-21		X	X	X								
7 WHC @ 0-6"				G	1			X				X			4-30-21		X	X	X								
8 WHC @ 1'				G	1			X				X			4-30-21		X	X	X								
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Relinquished By:				Date: 4-30-21		Received By:				Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Add'l Phone #:													
[Signature]				Time: 1640		[Signature]				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS: Rush ASAP Please!																	
				Time:						Please email results to pm@etechenv.com.																	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:						Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) TJ																	
7.1c #113																											



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

November 03, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 10/29/21 16:55.

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: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 1 (H213070-01)

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	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTX	<0.300	0.300	11/02/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/02/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 71.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.3 % 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: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 1 (H213070-02)

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	11/02/2021	ND	2.21	111	2.00	4.77		
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48		
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64		
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52		
Total BTEx	<0.300	0.300	11/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	224	16.0	11/02/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.4 % 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: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 1 (H213070-03)

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	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTEx	<0.300	0.300	11/02/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/02/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 76.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.1 % 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: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 1 (H213070-04)

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	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTEx	<0.300	0.300	11/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	528	16.0	11/02/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 79.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.8 % 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: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 3 (H213070-05)

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	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTEx	<0.300	0.300	11/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	160	16.0	11/02/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.8 % 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: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 3 (H213070-06)

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	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTEx	<0.300	0.300	11/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	400	16.0	11/02/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.1 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 2 (H213070-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTEx	<0.300	0.300	11/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	208	16.0	11/02/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2021	ND	210	105	200	5.82	
DRO >C10-C28*	<10.0	10.0	11/02/2021	ND	220	110	200	8.99	
EXT DRO >C28-C36	<10.0	10.0	11/02/2021	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager


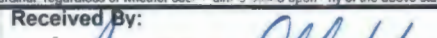



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ETECH Environmental				BILL TO				ANALYSIS REQUEST																
Project Manager: Joel Lowry				P.O. #:																				
Address: 2617 Marland				Company: Conoco Phillips																				
City: Hobbs State: NM Zip: 88240				Attn:																				
Phone #: 575-964-2880 Fax #: -				Address:																				
Project #: 14015 Project Owner: Conoco Phillips				City:																				
Project Name: SRO State OH				State: Zip:																				
Project Location: Rural Eddy Co, NM				Phone #:																				
Sampler Name: Miguel Ramirez				Fax #:				Chlorides	BTX	TPH														
FOR LAB USE ONLY				MATRIX														PRESERV.		SAMPLING				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL											SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME
H213070																								
1	NW1	C	1			X														X			10/28/21	
2	EW1	C	1			X														X			10/28/21	
3	SW1	C	1			X				X			10/28/21											
4	WW1	C	1			X				X			10/28/21											
5	SW3	C	1			X				X			10/28/21											
6	WW3	C	1			X				X			10/28/21											
7	EW2	C	1			X				X			10/28/21											

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Relinquished By:  Relinquished By: _____		Date: <u>10-29-21</u> Time: <u>1655</u> Received By:  Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: <u>Pm@etechenv.com</u>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C <u>4.9</u> Corrected Temp. °C <u>4.4</u>		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
		CHECKED BY: (Initials) 		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Thermometer ID #113 Correction Factor <u>None</u> <u>-0.5°</u> Corrected Temp. °C	



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

November 03, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 10/29/21 16:55.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 1 @ 2' (H213071-01)

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	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTEX	<0.300	0.300	11/02/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/02/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2021	ND	210	105	200	5.82	
DRO >C10-C28*	<10.0	10.0	11/02/2021	ND	220	110	200	8.99	
EXT DRO >C28-C36	<10.0	10.0	11/02/2021	ND					

Surrogate: 1-Chlorooctane 92.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.9 % 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: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 3 @ 4' (H213071-02)

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	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTX	<0.300	0.300	11/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	336	16.0	11/02/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2021	ND	210	105	200	5.82	
DRO >C10-C28*	<10.0	10.0	11/02/2021	ND	220	110	200	8.99	
EXT DRO >C28-C36	<10.0	10.0	11/02/2021	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.3 % 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: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 2 @ 4'-R (H213071-03)

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	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTEx	<0.300	0.300	11/02/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	11/02/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2021	ND	210	105	200	5.82	
DRO >C10-C28*	<10.0	10.0	11/02/2021	ND	220	110	200	8.99	
EXT DRO >C28-C36	<10.0	10.0	11/02/2021	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.8 % 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: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 3B (H213071-04)

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	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTX	<0.300	0.300	11/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	192	16.0	11/02/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2021	ND	210	105	200	5.82	
DRO >C10-C28*	<10.0	10.0	11/02/2021	ND	220	110	200	8.99	
EXT DRO >C28-C36	<10.0	10.0	11/02/2021	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.5 % 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: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 2C (H213071-05)

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	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTX	<0.300	0.300	11/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	464	16.0	11/02/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2021	ND	210	105	200	5.82	
DRO >C10-C28*	<10.0	10.0	11/02/2021	ND	220	110	200	8.99	
EXT DRO >C28-C36	<10.0	10.0	11/02/2021	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.0 % 38.9-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 2B (H213071-06)

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	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTX	<0.300	0.300	11/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	224	16.0	11/02/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2021	ND	210	105	200	5.82	
DRO >C10-C28*	<10.0	10.0	11/02/2021	ND	220	110	200	8.99	
EXT DRO >C28-C36	<10.0	10.0	11/02/2021	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.4 % 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: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 3B (H213071-07)

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	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTX	<0.300	0.300	11/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	272	16.0	11/02/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2021	ND	210	105	200	5.82	
DRO >C10-C28*	<10.0	10.0	11/02/2021	ND	220	110	200	8.99	
EXT DRO >C28-C36	<10.0	10.0	11/02/2021	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.6 % 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: 10/29/2021
 Reported: 11/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: CP - RURAL EDDY CO

Sampling Date: 10/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 2B R (H213071-08)

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	11/02/2021	ND	2.21	111	2.00	4.77		
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48		
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64		
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52		
Total BTX	<0.300	0.300	11/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	1720	16.0	11/02/2021	ND	416	104	400	0.00	QM-07	

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	11/02/2021	ND	210	105	200	5.82	
DRO >C10-C28*	<10.0	10.0	11/02/2021	ND	220	110	200	8.99	
EXT DRO >C28-C36	<10.0	10.0	11/02/2021	ND					

Surrogate: 1-Chlorooctane 80.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.4 % 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

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager


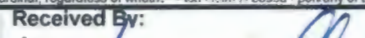


101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ETech Environmental						BILL TO							ANALYSIS REQUEST											
Project Manager: Joel Lowmy						P.O. #:																		
Address: 2617 Marland						Company: Conoco Phillips																		
City: Hobbs State: NM Zip: 88240						Attn:																		
Phone #: 575-964-2280 Fax #: —						Address:																		
Project #: 14015 Project Owner: CONOCO PHILLIPS						City:																		
Project Name: SRO state 8H						State: Zip:																		
Project Location: Rural Eddy co, NM						Phone #:																		
Sampler Name: Miguel Ramirez						Fax #:																		
FOR LAB USE ONLY						MATRIX	PRESERV.	SAMPLING																
Lab I.D.	Sample I.D.	(G/RAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	DATE	TIME	Chlorides	BTEX	TPH							
H213071																								
1	FL1@2'	C	1	X						X			10/27/21		X	X	X							
2	FL3@4'	C	1	X						X			10/29/21		X	X	X							
3	FL2@4'-R	C	1	X						X					X	X	X							
4	NW3B	C	1	X						X					X	X	X							
5	NW2C	C	1	X						X					X	X	X							
6	WW2B	C	1	X						X					X	X	X							
7	EW3B	C	1	X						X					X	X	X							
8	SW2BR	C	1	X						X					X	X	X							

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Relinquished By:  Relinquished By: _____ Date: <u>10-29-21</u> Time: <u>1655</u>		Received By:  Received By: _____ Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C <u>4.9</u> Corrected Temp. °C <u>4.4</u>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
CHECKED BY: (Initials) <u>70</u>		REMARKS: <u>PM@etechnv.com</u>			
Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No			
Thermometer ID #113 Correction Factor <u>None</u> <u>-0.5</u>		Corrected Temp. °C			

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



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

December 01, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 11/30/21 8:20.

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: 11/30/2021
 Reported: 12/01/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 11/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 3 B (H213407-01)

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	11/30/2021	ND	1.93	96.7	2.00	0.674		
Toluene*	<0.050	0.050	11/30/2021	ND	1.99	99.7	2.00	2.47		
Ethylbenzene*	<0.050	0.050	11/30/2021	ND	1.99	99.7	2.00	2.63		
Total Xylenes*	<0.150	0.150	11/30/2021	ND	6.14	102	6.00	2.40		
Total BTX	<0.300	0.300	11/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	112	16.0	11/30/2021	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	11/30/2021	ND	187	93.4	200	3.39	
DRO >C10-C28*	<10.0	10.0	11/30/2021	ND	198	99.1	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	11/30/2021	ND					

Surrogate: 1-Chlorooctane 95.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 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: 11/30/2021
 Reported: 12/01/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 11/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 3 C (H213407-02)

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	11/30/2021	ND	1.93	96.7	2.00	0.674		
Toluene*	<0.050	0.050	11/30/2021	ND	1.99	99.7	2.00	2.47		
Ethylbenzene*	<0.050	0.050	11/30/2021	ND	1.99	99.7	2.00	2.63		
Total Xylenes*	<0.150	0.150	11/30/2021	ND	6.14	102	6.00	2.40		
Total BTX	<0.300	0.300	11/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	304	16.0	11/30/2021	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	11/30/2021	ND	187	93.4	200	3.39	
DRO >C10-C28*	<10.0	10.0	11/30/2021	ND	198	99.1	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	11/30/2021	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.4 % 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: 11/30/2021
 Reported: 12/01/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 11/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 3 C (H213407-03)

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	11/30/2021	ND	1.93	96.7	2.00	0.674		
Toluene*	<0.050	0.050	11/30/2021	ND	1.99	99.7	2.00	2.47		
Ethylbenzene*	<0.050	0.050	11/30/2021	ND	1.99	99.7	2.00	2.63		
Total Xylenes*	<0.150	0.150	11/30/2021	ND	6.14	102	6.00	2.40		
Total BTX	<0.300	0.300	11/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	160	16.0	11/30/2021	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	11/30/2021	ND	187	93.4	200	3.39	
DRO >C10-C28*	<10.0	10.0	11/30/2021	ND	198	99.1	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	11/30/2021	ND					

Surrogate: 1-Chlorooctane 98.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 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

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

December 03, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 12/01/21 13:15.

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: 12/01/2021
 Reported: 12/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 11/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 5 (H213436-01)

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	12/02/2021	ND	2.06	103	2.00	5.54		
Toluene*	<0.050	0.050	12/02/2021	ND	1.98	99.1	2.00	5.34		
Ethylbenzene*	<0.050	0.050	12/02/2021	ND	1.95	97.7	2.00	5.14		
Total Xylenes*	<0.150	0.150	12/02/2021	ND	5.98	99.7	6.00	4.45		
Total BTX	<0.300	0.300	12/02/2021	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	592	16.0	12/02/2021	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	12/02/2021	ND	225	112	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/02/2021	ND	217	109	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.8 % 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: 12/01/2021
 Reported: 12/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 11/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 4 (H213436-02)

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	12/02/2021	ND	2.06	103	2.00	5.54		
Toluene*	<0.050	0.050	12/02/2021	ND	1.98	99.1	2.00	5.34		
Ethylbenzene*	<0.050	0.050	12/02/2021	ND	1.95	97.7	2.00	5.14		
Total Xylenes*	<0.150	0.150	12/02/2021	ND	5.98	99.7	6.00	4.45		
Total BTEx	<0.300	0.300	12/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	544	16.0	12/02/2021	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	12/02/2021	ND	225	112	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/02/2021	ND	217	109	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.3 % 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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

December 03, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 12/01/21 13:15.

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: 12/01/2021
 Reported: 12/03/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 11/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 3 B @ 4' (H213437-01)

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	12/02/2021	ND	2.06	103	2.00	5.54		
Toluene*	<0.050	0.050	12/02/2021	ND	1.98	99.1	2.00	5.34		
Ethylbenzene*	<0.050	0.050	12/02/2021	ND	1.95	97.7	2.00	5.14		
Total Xylenes*	<0.150	0.150	12/02/2021	ND	5.98	99.7	6.00	4.45		
Total BTX	<0.300	0.300	12/02/2021	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	96.0	16.0	12/02/2021	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	12/02/2021	ND	225	112	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/02/2021	ND	217	109	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					

Surrogate: 1-Chlorooctane 96.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.4 % 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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 14015 Project Owner: Project Name: SRO state 8th Project Location: Rural Eddy County Sampler Name: Dan Ca				BILL TO				ANALYSIS REQUEST																							
				P.O. #: Company: COG Attn: Address: City: State: Zip: Phone #: Fax #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																							
Lab I.D.	Sample I.D.	G/RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME																	
H213437	FL3BC41	C	1			✓				✓			11/30/21			X	X	X													
WP 12/1/21																															
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																															
Relinquished By: Dan Ca				Date: 11/30/21 Time: 5:00pm				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:																			
Relinquished By: [Signature]				Date: 12-1-21 Time: 1:315				Received By: [Signature]				Please email copy of COC and results to pm@etechenv.com.																			
Delivered By: (Circle One) 4.1c C-0.5c				Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) T.O.																							
Sampler: UPS - Bus - Other: 5.6c #113																															



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

December 06, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 12/02/21 14:15.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/02/2021
 Reported: 12/06/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 4 @ 4' (H213462-01)

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	12/04/2021	ND	2.11	105	2.00	0.603	
Toluene*	<0.050	0.050	12/04/2021	ND	2.06	103	2.00	0.585	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.02	101	2.00	0.118	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.12	102	6.00	0.00774	
Total BTX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	624	16.0	12/06/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.5 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/02/2021
 Reported: 12/06/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 5 @ 3' (H213462-02)

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	12/04/2021	ND	2.11	105	2.00	0.603	
Toluene*	<0.050	0.050	12/04/2021	ND	2.06	103	2.00	0.585	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.02	101	2.00	0.118	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.12	102	6.00	0.00774	
Total BTEx	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 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	608	16.0	12/06/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 96.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.1 % 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: 12/02/2021
 Reported: 12/06/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 6 @ 3' (H213462-03)

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	12/04/2021	ND	2.11	105	2.00	0.603		
Toluene*	<0.050	0.050	12/04/2021	ND	2.06	103	2.00	0.585		
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.02	101	2.00	0.118		
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.12	102	6.00	0.00774		
Total BTEx	<0.300	0.300	12/04/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 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	384	16.0	12/06/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 97.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.6 % 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: 12/02/2021
 Reported: 12/06/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 6 (H213462-04)

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	12/04/2021	ND	2.11	105	2.00	0.603	
Toluene*	<0.050	0.050	12/04/2021	ND	2.06	103	2.00	0.585	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.02	101	2.00	0.118	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.12	102	6.00	0.00774	
Total BTEx	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	320	16.0	12/06/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.4 % 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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 4/20/2022 1:47:24 PM



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

December 06, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 12/02/21 14:15.

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: 12/02/2021
 Reported: 12/06/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF 1 @ 0' (H213463-01)

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	12/04/2021	ND	2.11	105	2.00	0.603	
Toluene*	<0.050	0.050	12/04/2021	ND	2.06	103	2.00	0.585	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.02	101	2.00	0.118	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.12	102	6.00	0.00774	
Total BTX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	15000	16.0	12/04/2021	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	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	305	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	190	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.7 % 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: 12/02/2021
 Reported: 12/06/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF 1 @ 4' (H213463-02)

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	12/04/2021	ND	2.11	105	2.00	0.603		
Toluene*	<0.050	0.050	12/04/2021	ND	2.06	103	2.00	0.585		
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.02	101	2.00	0.118		
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.12	102	6.00	0.00774		
Total BTEx	<0.300	0.300	12/04/2021	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	672	16.0	12/04/2021	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	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.3 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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 "C. 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

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:																	
Phone #: (575) 264-9884		Fax #:		Address:		City:																	
Project #: 14015		Project Owner: COG		State:		Zip:																	
Project Name: SLO State 8H		Project Location: Rural Eddy		Phone #:		Fax #:																	
Sampler Name: Sam Can				FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING											
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE ICE / COOL OTHER:		DATE TIME											
H213463		DEF 100'		C 1		✓		✓		✓		12/1/21		X X X									
1		DEF 104'		C 1		✓		✓		✓		12/1/21		X X X									
2																							
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Relinquished By: Sam Can				Date: 12/1/21		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:													
Relinquished By: [Signature]				Time: 5:00pm		Received By: [Signature]		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:													
Delivered By: (Circle One)				Date: 12-2-21		Received By: [Signature]		REMARKS:															
Sampler - UPS - Bus - Other:				Time: 1415		Time: 1415		Please email copy of COC and results to pm@etechenv.com.															
				3.9% C-0.5%		Sample Condition		CHECKED BY:															
				3.4% H13		Cool Intact		(Initials)															
						Yes No		Yes No															



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

December 07, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 12/03/21 11:50.

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: 12/03/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FL 2 B @ 4' (H213479-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	1.53	76.5	2.00	12.1	
Toluene*	<0.050	0.050	12/07/2021	ND	1.58	78.8	2.00	11.7	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.54	76.9	2.00	15.3	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	4.60	76.7	6.00	16.4	
Total BTX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	464	16.0	12/07/2021	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	12/06/2021	ND	224	112	200	18.6	
DRO >C10-C28*	<10.0	10.0	12/06/2021	ND	208	104	200	6.16	
EXT DRO >C28-C36	<10.0	10.0	12/06/2021	ND					

Surrogate: 1-Chlorooctane 93.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.4 % 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: 12/03/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FL 7 @ 3' (H213479-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	1.53	76.5	2.00	12.1	
Toluene*	<0.050	0.050	12/07/2021	ND	1.58	78.8	2.00	11.7	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.54	76.9	2.00	15.3	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	4.60	76.7	6.00	16.4	
Total BTX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	368	16.0	12/07/2021	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	12/06/2021	ND	224	112	200	18.6	
DRO >C10-C28*	<10.0	10.0	12/06/2021	ND	208	104	200	6.16	
EXT DRO >C28-C36	<10.0	10.0	12/06/2021	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.1 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/03/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FL 8 @ 4' (H213479-03)

BTEX 8021B			mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2021	ND	1.53	76.5	2.00	12.1		
Toluene*	<0.050	0.050	12/07/2021	ND	1.58	78.8	2.00	11.7		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.54	76.9	2.00	15.3		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	4.60	76.7	6.00	16.4		
Total BTEX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	240	16.0	12/07/2021	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	12/06/2021	ND	224	112	200	18.6	
DRO >C10-C28*	<10.0	10.0	12/06/2021	ND	208	104	200	6.16	
EXT DRO >C28-C36	<10.0	10.0	12/06/2021	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.6 % 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: 12/03/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FL 9 @ 4' (H213479-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	1.53	76.5	2.00	12.1	
Toluene*	<0.050	0.050	12/07/2021	ND	1.58	78.8	2.00	11.7	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.54	76.9	2.00	15.3	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	4.60	76.7	6.00	16.4	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	624	16.0	12/07/2021	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	12/06/2021	ND	224	112	200	18.6	
DRO >C10-C28*	<10.0	10.0	12/06/2021	ND	208	104	200	6.16	
EXT DRO >C28-C36	<10.0	10.0	12/06/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.6 % 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: 12/03/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FL 10 @ 4' (H213479-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2021	ND	1.53	76.5	2.00	12.1		
Toluene*	<0.050	0.050	12/07/2021	ND	1.58	78.8	2.00	11.7		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.54	76.9	2.00	15.3		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	4.60	76.7	6.00	16.4		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	512	16.0	12/07/2021	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	12/06/2021	ND	224	112	200	18.6	
DRO >C10-C28*	<10.0	10.0	12/06/2021	ND	208	104	200	6.16	
EXT DRO >C28-C36	<10.0	10.0	12/06/2021	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.3 % 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: 12/03/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FL 11 @ 4' (H213479-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	1.53	76.5	2.00	12.1	
Toluene*	<0.050	0.050	12/07/2021	ND	1.58	78.8	2.00	11.7	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.54	76.9	2.00	15.3	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	4.60	76.7	6.00	16.4	
Total BTX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	576	16.0	12/07/2021	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	12/06/2021	ND	224	112	200	18.6	
DRO >C10-C28*	<10.0	10.0	12/06/2021	ND	208	104	200	6.16	
EXT DRO >C28-C36	<10.0	10.0	12/06/2021	ND					

Surrogate: 1-Chlorooctane 99.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.6 % 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: 12/03/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FL 12 @ 4' (H213479-07)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2021	ND	1.61	80.4	2.00	8.29	QM-07, QR-03
Toluene*	<0.050	0.050	12/06/2021	ND	1.55	77.5	2.00	10.4	QR-03
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	1.54	77.1	2.00	10.7	QR-03
Total Xylenes*	<0.150	0.150	12/06/2021	ND	4.74	79.0	6.00	11.0	QR-03
Total BTEx	<0.300	0.300	12/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	480	16.0	12/07/2021	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	12/07/2021	ND	189	94.5	200	4.30	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	203	101	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.3 % 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: 12/03/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FL 13 @ 4' (H213479-08)

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	12/06/2021	ND	1.61	80.4	2.00	8.29	
Toluene*	<0.050	0.050	12/06/2021	ND	1.55	77.5	2.00	10.4	
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	1.54	77.1	2.00	10.7	
Total Xylenes*	<0.150	0.150	12/06/2021	ND	4.74	79.0	6.00	11.0	
Total BTX	<0.300	0.300	12/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	656	16.0	12/07/2021	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	12/07/2021	ND	189	94.5	200	4.30	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	203	101	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.9 % 38.9-142

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Analytical Results For:

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

Received: 12/03/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FL 14 @ 4' (H213479-09)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/06/2021	ND	1.61	80.4	2.00	8.29		
Toluene*	<0.050	0.050	12/06/2021	ND	1.55	77.5	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	1.54	77.1	2.00	10.7		
Total Xylenes*	<0.150	0.150	12/06/2021	ND	4.74	79.0	6.00	11.0		
Total BTEx	<0.300	0.300	12/06/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	592	16.0	12/07/2021	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	12/07/2021	ND	189	94.5	200	4.30	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	203	101	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 95.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.0 % 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: 12/03/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FL 15 @ 4' (H213479-10)

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	12/06/2021	ND	1.61	80.4	2.00	8.29		
Toluene*	<0.050	0.050	12/06/2021	ND	1.55	77.5	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	1.54	77.1	2.00	10.7		
Total Xylenes*	<0.150	0.150	12/06/2021	ND	4.74	79.0	6.00	11.0		
Total BTEx	<0.300	0.300	12/06/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	240	16.0	12/07/2021	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	12/07/2021	ND	189	94.5	200	4.30	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	203	101	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 98.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.7 % 38.9-142

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Analytical Results For:

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

Received: 12/03/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FL 16 @ 4' (H213479-11)

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	12/06/2021	ND	1.61	80.4	2.00	8.29	
Toluene*	<0.050	0.050	12/06/2021	ND	1.55	77.5	2.00	10.4	
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	1.54	77.1	2.00	10.7	
Total Xylenes*	<0.150	0.150	12/06/2021	ND	4.74	79.0	6.00	11.0	
Total BTX	<0.300	0.300	12/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	240	16.0	12/07/2021	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	12/07/2021	ND	189	94.5	200	4.30	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	203	101	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.6 % 38.9-142

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Analytical Results For:

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

Received: 12/03/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FL 17 @ 4' (H213479-12)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2021	ND	1.61	80.4	2.00	8.29	
Toluene*	<0.050	0.050	12/06/2021	ND	1.55	77.5	2.00	10.4	
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	1.54	77.1	2.00	10.7	
Total Xylenes*	<0.150	0.150	12/06/2021	ND	4.74	79.0	6.00	11.0	
Total BTEx	<0.300	0.300	12/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	208	16.0	12/07/2021	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	12/07/2021	ND	189	94.5	200	4.30	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	203	101	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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

1 of 2
Page 15 of 16

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager:				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 West Marland				Company: COG																									
City: Hobbs State: NM Zip: 88240				Attn:																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 14015 Project Owner: COG				City:																									
Project Name: SRO State 8H				State: Zip:																									
Project Location: Rural Eddy				Phone #:																									
Sampler Name: Da Ca				Fax #:																									
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	DATE	TIME															
H213479																													
1	FL2B@4'	C	1			✓				✓			12/2/21		X	X	X												
2	FL7@3'																												
3	FL8@4'																												
4	FL9@4'																												
5	FL10@4'																												
6	FL11@4'																												
7	FL12@4'																												
8	FL13@4'																												
9	FL14@4'																												
10	FL15@4'																												

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

Relinquished By: Da Ca	Date: 12/2/21 Time: 5:00pm	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #:
Relinquished By: [Signature]	Date: 12/3/21 Time: 11:50	Received By: Jodi Benson	REMARKS: Bush! added 12/4/21
Delivered By: (Circle One) -2.8	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: [Signature]	Please email copy of COC and results to pm@etechenv.com. ✓

FORM-006
Revision 1.0

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



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

December 07, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 12/06/21 11:25.

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: 12/06/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 18 @ 4' (H213500-01)

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	12/06/2021	ND	1.61	80.7	2.00	11.7		
Toluene*	<0.050	0.050	12/06/2021	ND	1.55	77.6	2.00	13.4		
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	1.53	76.5	2.00	14.1		
Total Xylenes*	<0.150	0.150	12/06/2021	ND	4.70	78.3	6.00	13.4		
Total BTX	<0.300	0.300	12/06/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	208	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.6 % 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: 12/06/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 19 @ 4' (H213500-02)

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	12/06/2021	ND	1.61	80.7	2.00	11.7		
Toluene*	<0.050	0.050	12/06/2021	ND	1.55	77.6	2.00	13.4		
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	1.53	76.5	2.00	14.1		
Total Xylenes*	<0.150	0.150	12/06/2021	ND	4.70	78.3	6.00	13.4		
Total BTX	<0.300	0.300	12/06/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	224	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 90.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.4 % 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: 12/06/2021
 Reported: 12/07/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 2 B (H213500-03)

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	12/06/2021	ND	1.61	80.7	2.00	11.7		
Toluene*	<0.050	0.050	12/06/2021	ND	1.55	77.6	2.00	13.4		
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	1.53	76.5	2.00	14.1		
Total Xylenes*	<0.150	0.150	12/06/2021	ND	4.70	78.3	6.00	13.4		
Total BTX	<0.300	0.300	12/06/2021	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	432	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 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

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

RUSH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

added per Kathy

Page 6 of 6

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 14015 Project Owner: COG Project Name: SR0 State 8H Project Location: Rural Eddy Sampler Name: Danica				BILL TO P.O. #: Company: COG Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																				
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)																
Lab I.D.	Sample I.D.	GIRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
H213500																												
1	FL18@4'	C	1			✓				✓			12/3/21			X	X	X										
2	FL19@4'	C	1			✓				✓						X	X	X										
3	EW2-B	C	1			✓				✓			↓			X	X	X										
<div style="transform: rotate(-45deg);"> KAP 12/6/21 </div>																												

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Relinquished By: Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Date: 12/3/21 Time: 5:00pm Date: 12-6-21 Time: 11:25 1.6c C-D.58 1.1c #113	Received By: Received By: Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: Please email copy of COC and results to pm@etechenv.com.
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 08, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 12/07/21 8:27.

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: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/07/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 20 @ 4' (H213515-01)

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	12/07/2021	ND	1.85	92.7	2.00	3.05		
Toluene*	<0.050	0.050	12/07/2021	ND	1.79	89.7	2.00	8.99		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.78	88.9	2.00	9.64		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.49	91.5	6.00	9.23		
Total BTX	<0.300	0.300	12/07/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/07/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 71.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.2 % 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: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/07/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 21 @ 4' (H213515-02)

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	12/07/2021	ND	1.85	92.7	2.00	3.05		
Toluene*	<0.050	0.050	12/07/2021	ND	1.79	89.7	2.00	8.99		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.78	88.9	2.00	9.64		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.49	91.5	6.00	9.23		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	208	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 75.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.9 % 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: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/07/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 22 @ 4' (H213515-03)

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	12/07/2021	ND	1.85	92.7	2.00	3.05		
Toluene*	<0.050	0.050	12/07/2021	ND	1.79	89.7	2.00	8.99		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.78	88.9	2.00	9.64		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.49	91.5	6.00	9.23		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	240	16.0	12/07/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 65.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.6 % 38.9-142

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Analytical Results For:

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

Received: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/07/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 23 @ 4' (H213515-04)

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	12/07/2021	ND	1.85	92.7	2.00	3.05		
Toluene*	<0.050	0.050	12/07/2021	ND	1.79	89.7	2.00	8.99		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.78	88.9	2.00	9.64		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.49	91.5	6.00	9.23		
Total BTEx	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	240	16.0	12/07/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 70.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.8 % 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: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/07/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 24 @ 4' (H213515-05)

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	12/07/2021	ND	1.85	92.7	2.00	3.05		
Toluene*	<0.050	0.050	12/07/2021	ND	1.79	89.7	2.00	8.99		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.78	88.9	2.00	9.64		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.49	91.5	6.00	9.23		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	208	16.0	12/07/2021	ND	416	104	400	3.92		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	192	95.9	200	7.90		
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62		
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND						

Surrogate: 1-Chlorooctane 58.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 59.4 % 38.9-142

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Analytical Results For:

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

Received: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/07/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 25 @ 4' (H213515-06)

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	12/07/2021	ND	1.85	92.7	2.00	3.05	
Toluene*	<0.050	0.050	12/07/2021	ND	1.79	89.7	2.00	8.99	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.78	88.9	2.00	9.64	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.49	91.5	6.00	9.23	
Total BTX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	224	16.0	12/07/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 75.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.2 % 38.9-142

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Analytical Results For:

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

Received: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/07/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 26 @ 4' (H213515-07)

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	12/07/2021	ND	1.85	92.7	2.00	3.05	
Toluene*	<0.050	0.050	12/07/2021	ND	1.79	89.7	2.00	8.99	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.78	88.9	2.00	9.64	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.49	91.5	6.00	9.23	
Total BTX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	256	16.0	12/07/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 55.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 57.4 % 38.9-142

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Analytical Results For:

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

Received: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/07/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 27 @ 4' (H213515-08)

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	12/07/2021	ND	1.85	92.7	2.00	3.05	
Toluene*	<0.050	0.050	12/07/2021	ND	1.79	89.7	2.00	8.99	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.78	88.9	2.00	9.64	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.49	91.5	6.00	9.23	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	192	16.0	12/07/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 66.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.3 % 38.9-142

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Analytical Results For:

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

Received: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/07/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 28 @ 4' (H213515-09)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	1.85	92.7	2.00	3.05	
Toluene*	<0.050	0.050	12/07/2021	ND	1.79	89.7	2.00	8.99	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.78	88.9	2.00	9.64	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.49	91.5	6.00	9.23	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	224	16.0	12/07/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 77.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.6 % 38.9-142

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Analytical Results For:

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

Received: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/07/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 29 @ 4' (H213515-10)

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	12/07/2021	ND	1.85	92.7	2.00	3.05		
Toluene*	<0.050	0.050	12/07/2021	ND	1.79	89.7	2.00	8.99		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.78	88.9	2.00	9.64		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.49	91.5	6.00	9.23		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	224	16.0	12/07/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 75.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.6 % 38.9-142

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Kathy Purvis Address: 2617 W Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 14015 Project Owner: COG Project Name: SRO State 8H Project Location: Rural Eddy, NM Sampler Name: Dominic Casarez										BILL TO P.O. #: Company: COG Attn: Address: City: State: Zip: Phone #: Fax #:			ANALYSIS REQUEST									
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:												ACID/BASE:	ICE / COOL
H213515																						
1	FL 20 @ 4	C	1		X					X			12/7/21		X	X	X					
2	FL 21 @ 4	C	1		X					X			12/7/21		X	X	X					
3	FL 22 @ 4	C	1		X					X			12/7/21		X	X	X					
4	FL 23 @ 4	C	1		X					X			12/7/21		X	X	X					
5	FL 24 @ 4	C	1		X					X			12/7/21		X	X	X					
6	FL 25 @ 4	C	1		X					X			12/7/21		X	X	X					
7	FL 26 @ 4	C	1		X					X			12/7/21		X	X	X					
8	FL 27 @ 4	C	1		X					X			12/7/21		X	X	X					
9	FL 28 @ 4	C	1		X					X			12/7/21		X	X	X					
10	FL 29 @ 4	C	1		X					X			12/7/21		X	X	X					
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Relinquished By: Date: 12-7-21 Time: 0827		Received By: Date: Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:		Add'l Phone #: Add'l Fax #:																
Delivered By: (Circle One) <u>-8.7°</u> <u>-0.5°</u> Sampler - UPS - Bus - Other: <u>-9.2° #113</u>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) <u>TO.</u>		RUSH SAMPLES Please email results to pm@etechenv.com.																



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

December 08, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 12/07/21 16:15.

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: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 2 C (H213527-01)

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	12/08/2021	ND	1.98	99.2	2.00	4.41	
Toluene*	<0.050	0.050	12/08/2021	ND	1.92	95.9	2.00	5.21	
Ethylbenzene*	<0.050	0.050	12/08/2021	ND	1.88	94.2	2.00	5.49	
Total Xylenes*	<0.150	0.150	12/08/2021	ND	5.76	95.9	6.00	5.84	
Total BTX	<0.300	0.300	12/08/2021	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	624	16.0	12/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/08/2021	ND	186	92.9	200	0.659	
DRO >C10-C28*	<10.0	10.0	12/08/2021	ND	202	101	200	3.23	
EXT DRO >C28-C36	<10.0	10.0	12/08/2021	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.2 % 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: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF 2 @ 0' (H213527-02)

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	12/08/2021	ND	1.98	99.2	2.00	4.41		
Toluene*	<0.050	0.050	12/08/2021	ND	1.92	95.9	2.00	5.21		
Ethylbenzene*	<0.050	0.050	12/08/2021	ND	1.88	94.2	2.00	5.49		
Total Xylenes*	<0.150	0.150	12/08/2021	ND	5.76	95.9	6.00	5.84		
Total BTEx	<0.300	0.300	12/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	4080	16.0	12/08/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/08/2021	ND	186	92.9	200	0.659	
DRO >C10-C28*	<10.0	10.0	12/08/2021	ND	202	101	200	3.23	
EXT DRO >C28-C36	<10.0	10.0	12/08/2021	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.3 % 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: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF 2 @ 4' (H213527-03)

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	12/08/2021	ND	1.98	99.2	2.00	4.41		
Toluene*	<0.050	0.050	12/08/2021	ND	1.92	95.9	2.00	5.21		
Ethylbenzene*	<0.050	0.050	12/08/2021	ND	1.88	94.2	2.00	5.49		
Total Xylenes*	<0.150	0.150	12/08/2021	ND	5.76	95.9	6.00	5.84		
Total BTEx	<0.300	0.300	12/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	240	16.0	12/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/08/2021	ND	186	92.9	200	0.659	
DRO >C10-C28*	<10.0	10.0	12/08/2021	ND	202	101	200	3.23	
EXT DRO >C28-C36	<10.0	10.0	12/08/2021	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.4 % 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: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF 3 @ 0' (H213527-04)

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	12/08/2021	ND	1.98	99.2	2.00	4.41		
Toluene*	<0.050	0.050	12/08/2021	ND	1.92	95.9	2.00	5.21		
Ethylbenzene*	<0.050	0.050	12/08/2021	ND	1.88	94.2	2.00	5.49		
Total Xylenes*	<0.150	0.150	12/08/2021	ND	5.76	95.9	6.00	5.84		
Total BTEx	<0.300	0.300	12/08/2021	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	640	16.0	12/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/08/2021	ND	186	92.9	200	0.659	
DRO >C10-C28*	<10.0	10.0	12/08/2021	ND	202	101	200	3.23	
EXT DRO >C28-C36	<10.0	10.0	12/08/2021	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.3 % 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: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF 3 @ 4' (H213527-05)

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	12/08/2021	ND	1.98	99.2	2.00	4.41		
Toluene*	<0.050	0.050	12/08/2021	ND	1.92	95.9	2.00	5.21		
Ethylbenzene*	<0.050	0.050	12/08/2021	ND	1.88	94.2	2.00	5.49		
Total Xylenes*	<0.150	0.150	12/08/2021	ND	5.76	95.9	6.00	5.84		
Total BTEx	<0.300	0.300	12/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	240	16.0	12/08/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/08/2021	ND	186	92.9	200	0.659	
DRO >C10-C28*	<10.0	10.0	12/08/2021	ND	202	101	200	3.23	
EXT DRO >C28-C36	<10.0	10.0	12/08/2021	ND					

Surrogate: 1-Chlorooctane 81.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.0 % 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: 12/07/2021
 Reported: 12/08/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/07/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF 1 @ 4.5' (H213527-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	12/08/2021	ND	416	104	400	3.77	QM-07	

Sample ID: FL 4 @ 4.5' (H213527-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	12/08/2021	ND	416	104	400	3.77		

Sample ID: FL 5 @ 4.5' (H213527-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	12/08/2021	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "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

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:																					
Phone #: (575) 264-9884 Fax #:				Address:																					
Project #: 14015 Project Owner: COG				City:																					
Project Name: SRO State 8H				State: Zip:																					
Project Location: Rural Eddy				Phone #:																					
Sampler Name: Sam Con				Fax #:																					
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING											
										GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME											
H213527		WW2C		C-1		C		1		✓		✓		12/6/21		X X X									
1		DEF 2 @ 0'		C		C		1		✓		✓		12/6/21		X X X									
2		DEF 2 @ 4'		C		C		1		✓		✓		12/6/21		X X X									
3		DEF 3 @ 0'		C		C		1		✓		✓		12/6/21		X X X									
4		DEF 3 @ 4'		C		C		1		✓		✓		12/6/21		X X X									
5		DEF 1 @ 4.5'		C		C		1		✓		✓		12/6/21		X X X									
6		FL 4 @ 4.5'		C		C		1		✓		✓		12/6/21		X									
7		FL 5 @ 4.5'		C		C		1		✓		✓		12/6/21		X									
8																									
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																									
Relinquished By: [Signature]				Date: 12/7/21 Time: 3:30pm		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		REMARKS: Rush!													
Relinquished By: [Signature]				Date: 12-7-21 Time: 1615		Received By: [Signature]				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:															
Delivered By: (Circle One) - 8.2e C-0.5e																									
Sampler - UPS - Bus - Other: - 8.7e #113				Sample Condition: Cool Intact		CHECKED BY: (Initials) JO																			



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

December 09, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 12/08/21 15:25.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/08/2021
 Reported: 12/09/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 4 (H213551-01)

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	12/09/2021	ND	2.05	103	2.00	0.900	
Toluene*	<0.050	0.050	12/09/2021	ND	2.01	100	2.00	0.0145	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.99	99.3	2.00	0.707	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	6.06	101	6.00	1.37	
Total BTEX	<0.300	0.300	12/09/2021	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	816	16.0	12/09/2021	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	12/09/2021	ND	184	92.0	200	18.4	
DRO >C10-C28*	<10.0	10.0	12/09/2021	ND	206	103	200	4.61	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.9 % 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: 12/08/2021
 Reported: 12/09/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 4 (H213551-02)

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	12/09/2021	ND	2.05	103	2.00	0.900	
Toluene*	<0.050	0.050	12/09/2021	ND	2.01	100	2.00	0.0145	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.99	99.3	2.00	0.707	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	6.06	101	6.00	1.37	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 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	256	16.0	12/09/2021	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	12/09/2021	ND	184	92.0	200	18.4	
DRO >C10-C28*	<10.0	10.0	12/09/2021	ND	206	103	200	4.61	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.1 % 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: 12/08/2021
 Reported: 12/09/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WH (H213551-03)

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	12/09/2021	ND	2.05	103	2.00	0.900	
Toluene*	<0.050	0.050	12/09/2021	ND	2.01	100	2.00	0.0145	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.99	99.3	2.00	0.707	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	6.06	101	6.00	1.37	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	336	16.0	12/09/2021	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	12/09/2021	ND	184	92.0	200	18.4	
DRO >C10-C28*	<10.0	10.0	12/09/2021	ND	206	103	200	4.61	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10f

Page 6 of 6

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 14015 Project Owner: Project Name: SRD State 8H Project Location: Rural Eddy Sampler Name: Dan Ca				BILL TO		ANALYSIS REQUEST																		
				P.O. #: Company: COG Attn: Address: City: State: Zip: Phone #: Fax #:		Chloride TPH (8015M) BTEX (8021B)																		
FOR LAB USE ONLY				MATRIX	PRESERV.	SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME																	
H213551						12/8/21		X	X	X														
1 WW4				✓	✓	↓		X	X	X														
2 SW4				✓	✓			X	X	X														
3 WH				✓	✓			X	X	X														
KHP 12/8/21																								
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																								
Relinquished By: Dan Ca Date: 12/8/21 Time: 12:20pm				Received By: [Signature] Date: 12-8-21 Time: 1:25				Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: REMARKS: Rush!																
Delivered By: (Circle One) -6.4°C C-0.5°C Sampler - UPS - Bus - Other: -6.9°C #113				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				CHECKED BY: [Signature] (Initials) Please email copy of COC and results to pm@etechenv.com.																



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

December 13, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 12/09/21 16:40.

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/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SRO STATE COM #8H
Project Number: 14015
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Dec-21 10:42

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WW 2 D	H213564-01	Soil	09-Dec-21 15:00	09-Dec-21 16:40
FL 9 @ 4'	H213564-02	Soil	09-Dec-21 15:00	09-Dec-21 16:40

12/13/21 - Sample ID for -01 was changed as per the client. This is the revised report and will replace the one sent on 12/10/21.

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SRO STATE COM #8H
Project Number: 14015
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Dec-21 10:42

WW 2 D
H213564-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	384		16.0	mg/kg	4	1121006	AC	10-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1120923	MS/	10-Dec-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1120923	MS/	10-Dec-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1120923	MS/	10-Dec-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1120923	MS/	10-Dec-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1120923	MS/	10-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	95.0 %	69.9-140	1120923	MS/	10-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1121001	MS	10-Dec-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1121001	MS	10-Dec-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1121001	MS	10-Dec-21	8015B	

Surrogate: 1-Chlorooctane	78.8 %	44.3-133	1121001	MS	10-Dec-21	8015B	
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Surrogate: 1-Chlorooctadecane	76.3 %	38.9-142	1121001	MS	10-Dec-21	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: SRO STATE COM #8H
Project Number: 14015
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Dec-21 10:42

FL 9 @ 4'
H213564-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	1121006	AC	10-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1120923	MS/	10-Dec-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1120923	MS/	10-Dec-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1120923	MS/	10-Dec-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1120923	MS/	10-Dec-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1120923	MS/	10-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	95.1 %	69.9-140	1120923	MS/	10-Dec-21	8021B
---------------------------------------	--------	----------	---------	-----	-----------	-------

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1121001	MS	10-Dec-21	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1121001	MS	10-Dec-21	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1121001	MS	10-Dec-21	8015B

Surrogate: 1-Chlorooctane	94.2 %	44.3-133	1121001	MS	10-Dec-21	8015B
---------------------------	--------	----------	---------	----	-----------	-------

Surrogate: 1-Chlorooctadecane	91.7 %	38.9-142	1121001	MS	10-Dec-21	8015B
-------------------------------	--------	----------	---------	----	-----------	-------

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
2617 W MARLAND
HOBBS NM, 88240

Project: SRO STATE COM #8H
Project Number: 14015
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Dec-21 10:42

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1121006 - 1:4 DI Water									
Blank (1121006-BLK1)					Prepared & Analyzed: 10-Dec-21				
Chloride	ND	16.0	mg/kg						
LCS (1121006-BS1)					Prepared & Analyzed: 10-Dec-21				
Chloride	400	16.0	mg/kg	400		100	80-120		
LCS Dup (1121006-BSD1)					Prepared & Analyzed: 10-Dec-21				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SRO STATE COM #8H
Project Number: 14015
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Dec-21 10:42

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1120923 - Volatiles**Blank (1120923-BLK1)**

Prepared: 09-Dec-21 Analyzed: 10-Dec-21

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		94.3	69.9-140			

LCS (1120923-BS1)

Prepared: 09-Dec-21 Analyzed: 10-Dec-21

Benzene	2.01	0.050	mg/kg	2.00		100	85.1-114			
Toluene	1.98	0.050	mg/kg	2.00		99.1	88.6-116			
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.1	84.4-115			
m,p-Xylene	4.03	0.100	mg/kg	4.00		101	85.5-116			
o-Xylene	1.91	0.050	mg/kg	2.00		95.5	85.2-111			
Total Xylenes	5.94	0.150	mg/kg	6.00		99.0	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0461		mg/kg	0.0500		92.2	69.9-140			

LCS Dup (1120923-BSD1)

Prepared: 09-Dec-21 Analyzed: 10-Dec-21

Benzene	2.04	0.050	mg/kg	2.00		102	85.1-114	1.87	12.6	
Toluene	1.99	0.050	mg/kg	2.00		99.5	88.6-116	0.397	13.3	
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.2	84.4-115	0.113	13.9	
m,p-Xylene	4.05	0.100	mg/kg	4.00		101	85.5-116	0.594	13.6	
o-Xylene	1.95	0.050	mg/kg	2.00		97.7	85.2-111	2.23	14.1	
Total Xylenes	6.01	0.150	mg/kg	6.00		100	86.2-113	1.12	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0459		mg/kg	0.0500		91.8	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: SRO STATE COM #8H
Project Number: 14015
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Dec-21 10:42

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1121001 - General Prep - Organics**Blank (1121001-BLK1)**

Prepared & Analyzed: 10-Dec-21

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	42.3		mg/kg	50.0		84.7	44.3-133			
Surrogate: 1-Chlorooctadecane	41.9		mg/kg	50.0		83.7	38.9-142			

LCS (1121001-BS1)

Prepared & Analyzed: 10-Dec-21

GRO C6-C10	181	10.0	mg/kg	200		90.7	83.4-129			
DRO >C10-C28	204	10.0	mg/kg	200		102	79.3-136			
Total TPH C6-C28	385	10.0	mg/kg	400		96.3	85.3-130			
Surrogate: 1-Chlorooctane	44.2		mg/kg	50.0		88.5	44.3-133			
Surrogate: 1-Chlorooctadecane	43.7		mg/kg	50.0		87.4	38.9-142			

LCS Dup (1121001-BSD1)

Prepared & Analyzed: 10-Dec-21

GRO C6-C10	188	10.0	mg/kg	200		94.2	83.4-129	3.78	12.6	
DRO >C10-C28	207	10.0	mg/kg	200		103	79.3-136	1.45	12.1	
Total TPH C6-C28	395	10.0	mg/kg	400		98.8	85.3-130	2.55	11.6	
Surrogate: 1-Chlorooctane	45.4		mg/kg	50.0		90.8	44.3-133			
Surrogate: 1-Chlorooctadecane	45.2		mg/kg	50.0		90.4	38.9-142			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



• CARDINAL 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

December 13, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 12/10/21 16:35.

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 "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: 12/10/2021
 Reported: 12/13/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/10/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: WW 4B (H213577-01)

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	12/13/2021	ND	2.01	101	2.00	3.43	
Toluene*	<0.050	0.050	12/13/2021	ND	1.92	95.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.91	95.6	2.00	3.38	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.93	98.8	6.00	3.72	
Total BTEX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	368	16.0	12/11/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 69.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Joel Lowery				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: P.O. Box 301				Company: Etech																																					
City: Lovington State: NM Zip: 88260				Attn:																																					
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																																					
Project #: 14015 Project Owner: COG				City:																																					
Project Name: SRG State 8 H				State: Zip:																																					
Project Location: rural Carlsbad				Phone #:																																					
Sampler Name: Dominic Cabarez				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
H213577		WW46										✓														12/10		4:30		✓✓✓											
								</																																	



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

December 14, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 12/13/21 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is 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: 12/13/2021
 Reported: 12/14/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: FL 5 @ 19' (H213592-01)

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	12/14/2021	ND	1.93	96.7	2.00	7.69	
Toluene*	<0.050	0.050	12/14/2021	ND	1.84	92.0	2.00	7.05	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.84	92.2	2.00	4.91	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.73	95.6	6.00	4.73	
Total BTEx	<0.300	0.300	12/14/2021	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	400	16.0	12/14/2021	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	12/14/2021	ND	215	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	210	105	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/13/2021
 Reported: 12/14/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: FL 13 @ 20' (H213592-02)

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	12/14/2021	ND	1.93	96.7	2.00	7.69		
Toluene*	<0.050	0.050	12/14/2021	ND	1.84	92.0	2.00	7.05		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.84	92.2	2.00	4.91		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.73	95.6	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	416	16.0	12/14/2021	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	12/14/2021	ND	215	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	210	105	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 113 % 38.9-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



• CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

~~Page 5 of 5~~

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																			
Project Manager: Jole Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																			
Address: P.O. Box 301				Company: Etech																																							
City: Lovington State: NM Zip: 88260				Attn:																																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																																							
Project #: 14015 Project Owner: GOG				City:																																							
Project Name: SRO State 8H				State: Zip:																																							
Project Location: Rural Carlsbad N.M.				Phone #:																																							
Sampler Name: Dominic Casarez				Fax #:																																							
FOR LAB USE ONLY						MATRIX														PRESERV.		SAMPLING																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS														GROUNDWATER		WASTEWATER				SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
H213592																																											
1 FL 5 @ 19																																											
2 FL 15 @ 20																																											
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																											
Relinquished By: Dominic Casarez				Date: 12/13				Received By: Tamara [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																											
				Time: 1645								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																											
Relinquished By:				Date:				Received By:				REMARKS: Rush Please																															
				Time:																																							
Delivered By: (Circle One) 22-80 C-0.50				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.																															
Sampler - UPS - Bus - Other: 22-30 #13				Cool Intact				(Initials)																																			
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				YSE																																			



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

December 15, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SRO STATE COM #8H

Enclosed are the results of analyses for samples received by the laboratory on 12/14/21 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: 12/14/2021
 Reported: 12/15/2021
 Project Name: SRO STATE COM #8H
 Project Number: 14015
 Project Location: COG - RURAL EDDY CO

Sampling Date: 12/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: FL 4 @ 23' (H213602-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	12/15/2021	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 4

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

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: JOLE LOWRY				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																							
Address: P.O. Box 301				Company: Etech																											
City: Lovington State: NM Zip: 88260				Attn:																											
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																											
Project #: 14015 Project Owner: CoG				City:																											
Project Name: SRA State 8H				State: Zip:																											
Project Location: Rural Carlsbad				Phone #:																											
Sampler Name: Dominic Casarez				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.				Sample I.D.																											
H213602																															
1 FLU @ 23																															

FORM-006
Revision 1.0

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

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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 89266

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 89266
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved. In the areas of FL-5 and FL-13, if more data is extent between 4 and 19 ft bgs, please submit that data as a tag into the system.	4/20/2022