

# Remediation Summary and Soil Closure Request

## COG Operating, LLC SRO State Com #6H

Lea County, New Mexico  
Unit Letter "D", Section 5, Township 26 South, Range 28 East  
Latitude 32.07685 North, Longitude 104.11665 West  
NMOCD Reference No. 2RP-5661

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**  
3100 Plains Highway  
Lovington, New Mexico 88260



Lance Crenshaw



Joel W. Lowry



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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 and Soil Closure Request for the Release Site known as the SRO State Com #6H. Details of the release are summarized below:

<b>Location of Release Source</b>				
Latitude: <u>32.07685</u>		Longitude: <u>-104.11665</u>		
Provided GPS are in WGS84 format.				
Site Name: <u>SRO State Com #6H</u>		Site Type: <u>0</u>		
Date Release Discovered: <u>9/14/2019</u>		API # (if applicable):		
Unit Letter	Section	Township	Range	County
"D"	5	26S	28E	Lea
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Private (Name _____)				
<b>Nature and Volume of Release</b>				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	15 bbls	Volume Recovered (bbls)	14 bbls
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released		Volume/Weight Recovered	
Cause of Release: The release was caused by the heater failing to dump sending fluid through the flare.				
<b>Initial Response</b>				
<input checked="" type="checkbox"/> The source of the release has been stopped.				
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.				
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices				
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.				

Previously submitted portions of the 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 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?	<u>&lt;50 Ft.</u>		
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) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2.

## 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 for the Site is as follows:

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	Constituent	Method	Limit
<50 Ft.	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	NA
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

## 4.0 REMEDIATION ACTIVITIES SUMMARY

On **September 19, 2019**, Etech conducted an initial release assessment at the Site. During the initial release assessment, a series of hand-augered soil bores (V-1 through V-3) were advanced within the release margins in an effort to determine the vertical extent of impacted soil affected above the NMOCD Closure Criteria. During the advancement of the hand-augered soil bores, thirteen (13) soil samples were collected and submitted to a certified commercial laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria beyond 2 Ft. bgs in the area characterized by sample point V-1, 4 Ft. bgs in the area characterized by sample point V-2 and 2 Ft. bgs in the area characterized by sample point V-3.

In addition, six (6) hand-augered soil bores (NH-1, WH-1, EH-1, EH-2, SH-1 and WH-2) were advanced near the inferred edges of the release margins in an effort to determine the horizontal extent of impacted soil affected above the NMOCD Closure Criteria. During the advancement of the hand-augered soil bores, twelve (12) soil samples were collected and submitted to a certified commercial laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria beyond sample points NH-1, WH-1, EH-1, EH-2, SH-1 and WH-2.

On **October 3, 2019**, remediation activities commenced at the Site. In accordance with NMOCD Regulations, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, atop an impermeable liner, pending final disposition at an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and/or test results suggested BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria.

On **October 4, 2019**, Etech collected ten (10) excavation confirmation soil samples (F1 @ 4', F2 @ 4', F3 @ 4', W1 @ 2', W2 @ 2', W3 @ 2', W4 @ 2', W5 @ 2', W6 @ 4' and W7 @ 4') from the floor and sidewalls of the excavated area. The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On **October 7, 2019**, Etech collected fifteen (15) excavation confirmation soil samples (F4, F5, F6, F7, F8, F9, F10, F11, F12, W8, W9, W10, W11, W12 and W13) from the floor and sidewalls of the excavated area. The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

A "Site & Sample Location Map" is provided as Figure 3. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C. Field data and soil profile logs, if applicable, are provided as Appendix B.

The final dimensions of the excavated area were 100 Ft. in length, 15 to 40 Ft. in width and ranged from 2 to 4 Ft. in depth. During the course of remediation activities approximately 680 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

## 5.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was graded and compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Upon grading and compacting the affected area, the earthen berm was repaired and the facility was restored to pre-release conditions.

## **6.0 SOIL CLOSURE REQUEST**

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends COG Operating, LLC provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the SRO State Com #6H Site.

## **7.0 LIMITATIONS**

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Report and Proposed Remediation Workplan 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. Basis 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 within the consent of Etech and/or COG Operating, LLC.

## **8.0 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*

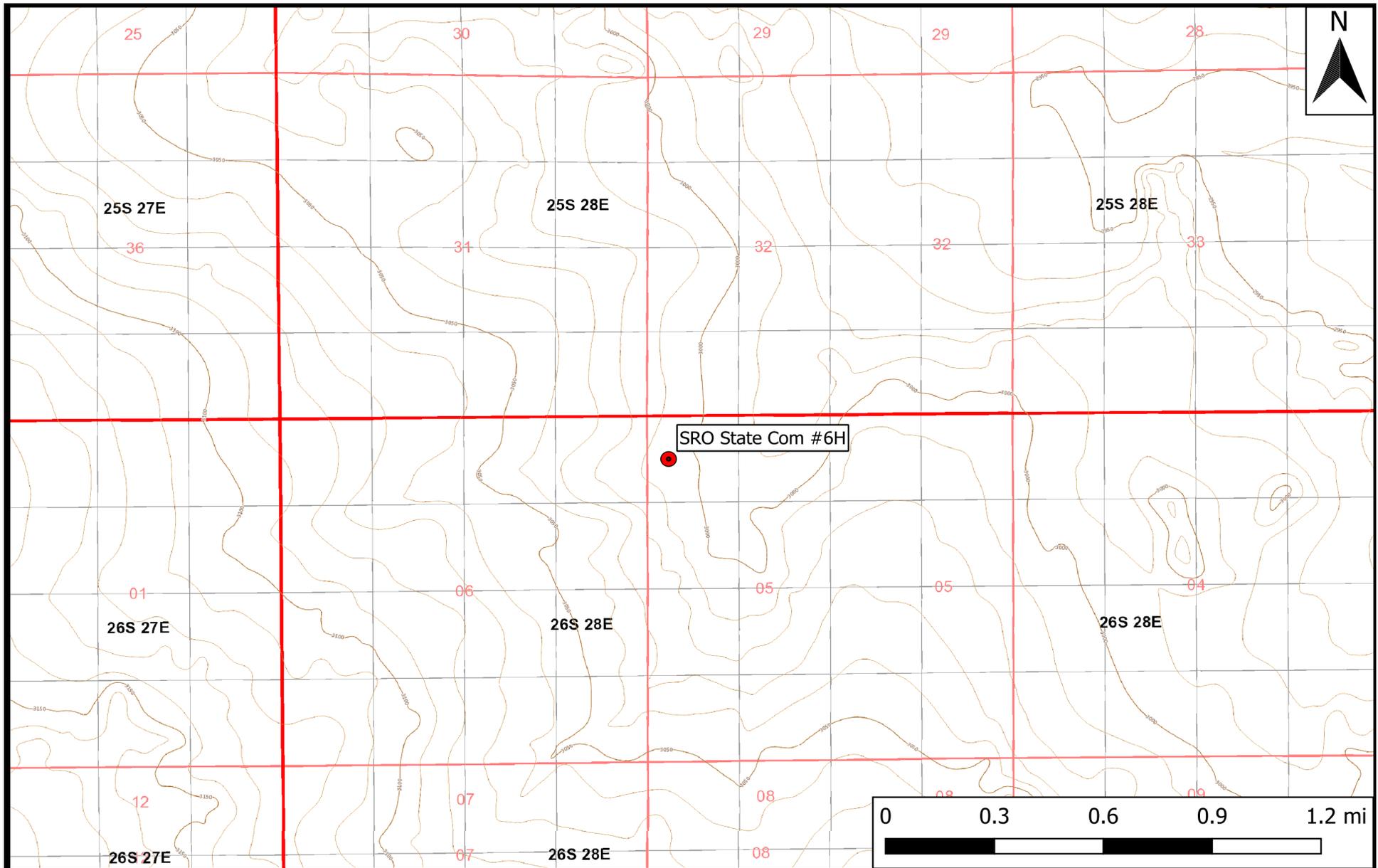
***Hobbs Field Office***

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

*(Electronic Submission)*

**Figure 1**

## Topographic Map



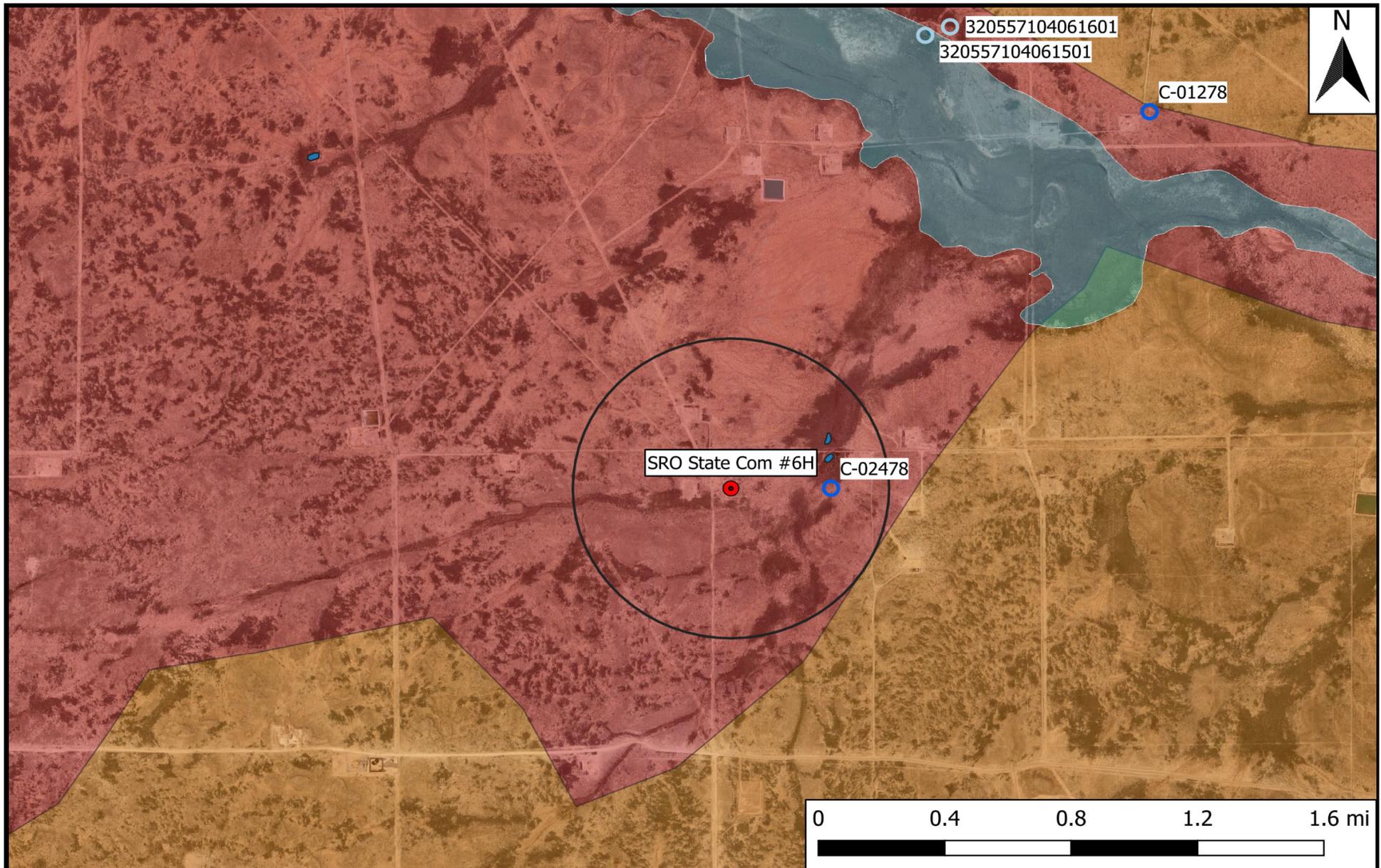
Legend  
● Site Location

**Figure 1**  
Topographic Map  
COG Operating, LLC  
SRO State Com #6H  
GPS: 32.07685, -104.11665  
Eddy County



Drafted: mag      Checked: jwl      Date: 10/11/19

**Figure 2**  
**Aerial Proximity Map**



Legend

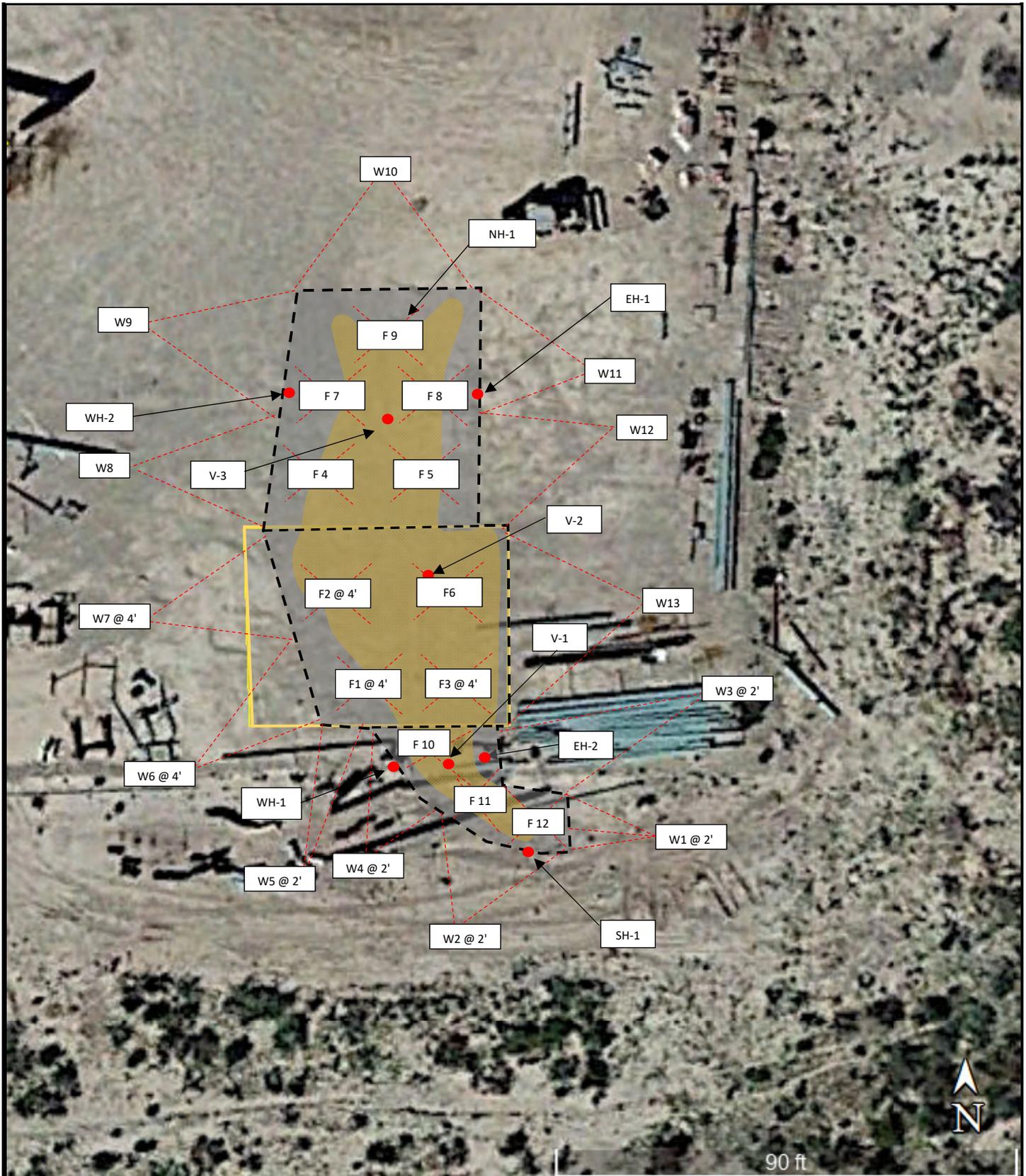
- Site Location
- Potash Mine Workings
- 0.5 Mi Radius
- 1% Annual Flood Chance
- Surface Water
- Well - USGS
- Well - NMOSE
- High Karst
- Medium Karst

**Figure 2**  
 Aerial Map  
 COG Operating, LLC  
 SRO State Com #6H  
 GPS: 32.07685, -104.11665  
 Eddy County



Drafted: mag      Checked: jwl      Date: 10/11/19

**Figure 3**  
**Site and Sample Location Map**



**Legend:**

- Delineation Sample Location
- Affected Area
- Excavated Area
- Earthen Containment
- Confirmation Sample Location

**Figure 3**  
 Site and Sample Location Map  
 COG Operating, LLC  
 SRO State Com #6H  
 GPS: 32.07685, -104.11665  
 Lea County

Environmental & Safety Solutions, Inc.

Drafted:

Checked: jwl      Date: 10/14/19

**Table 1**  
**Concentrations of BTEX, TPH, and/or Chloride in Soil**

**TABLE 1**  
**CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL**  
**COG Operating, LLC**  
**SRO State Com #6H**  
**NMOCD Ref. #:**

Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
V-1	9/19/19	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>26,000</b>
V-1	9/19/19	1'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>10,400</b>
V-1	9/19/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
V-1	9/19/19	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
V-2	9/19/19	Surf	Excavated	<0.050	<0.300	<10.0	40.0	40.0	<10.0	40.0	<b>30,000</b>
V-2	9/19/19	1'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>4,720</b>
V-2	9/19/19	2'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>848</b>
V-2	9/19/19	3'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>3,320</b>
V-2	9/19/19	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
V-3	9/19/19	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>56,800</b>
V-3	9/19/19	1'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
V-3	9/19/19	2'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
NH-1	9/19/19	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
NH-1	9/19/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
WH-1	9/19/19	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
WH-1	9/19/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
EH-1	9/19/19	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
EH-1	9/19/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
EH-2	9/19/19	Surf	Excavated	<0.050	<0.300	<10.0	774	774	544	<b>1,318</b>	224
EH-2	9/19/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SH-1	9/19/19	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SH-1	9/19/19	1.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
WH-2	9/19/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
WH-2	9/19/19	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
F1 @ 4'	10/4/19	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
F2 @ 4'	10/4/19	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
F3 @ 4'	10/4/19	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
W1 @ 2'	10/4/19	0-2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
W2 @ 2'	10/4/19	0-2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
W3 @ 2'	10/4/19	0-2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
W4 @ 2'	10/4/19	0-2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
W5 @ 2'	10/4/19	0-2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
W6 @ 4'	10/4/19	04'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
W7 @ 4'	10/4/19	0-4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
F 4	10/7/19	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
F 5	10/7/19	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
F 6	10/7/19	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
F 7	10/7/19	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
F 8	10/7/19	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
F 9	10/7/19	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
F 10	10/7/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
F 11	10/7/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
F 12	10/7/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
W 8	10/7/19	0-3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
W 9	10/7/19	0-3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
W 10	10/7/19	0-3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
W 11	10/7/19	0-3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
W 12	10/7/19	0-3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
W 13	10/7/19	0-4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
<b>Closure Criteria</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>N/A</b>	<b>-</b>	<b>100</b>	<b>600</b>

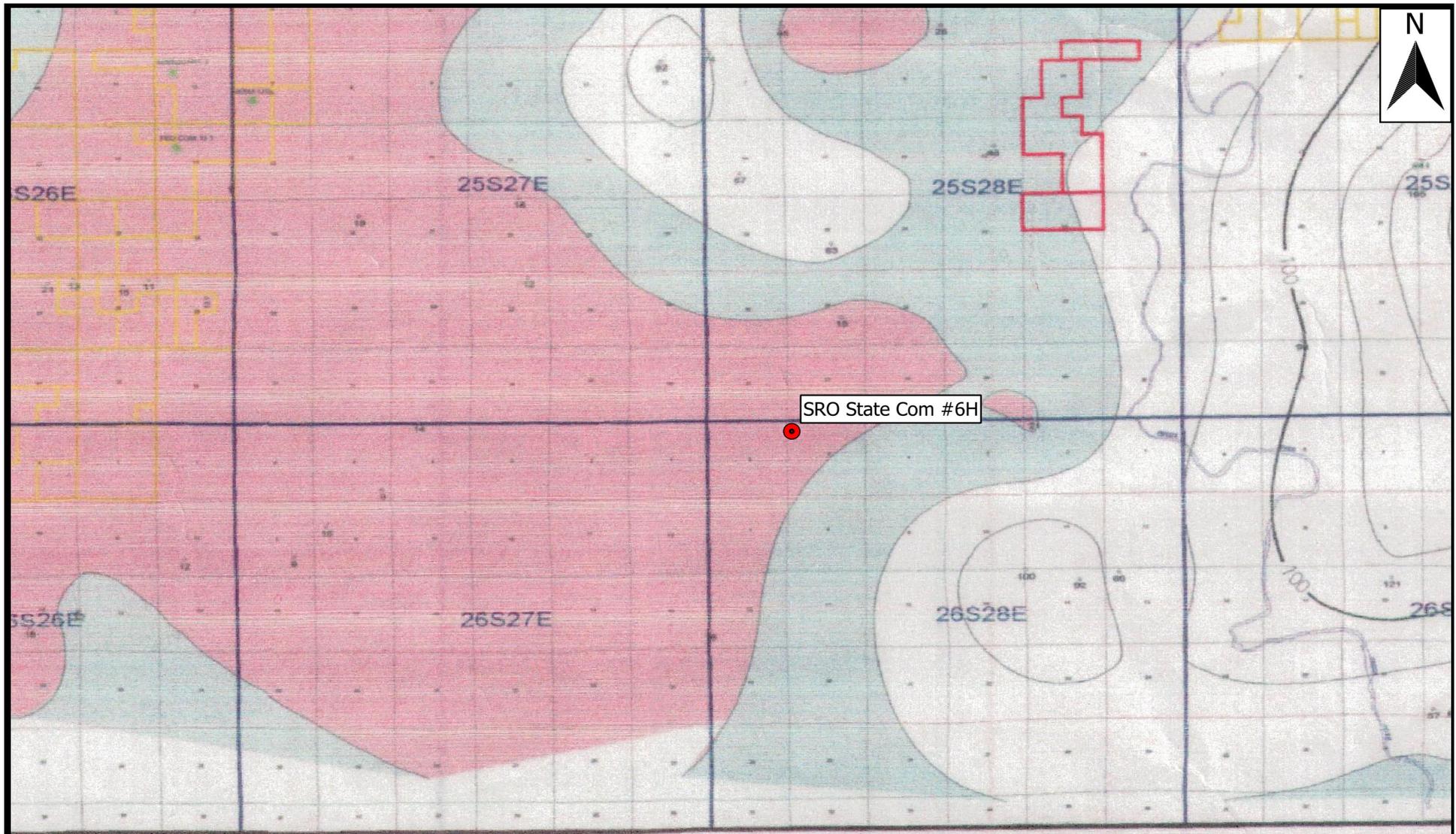
## NOTES:

- = Not analyzed for constituent

**Bold** text denotes a concentration that exceeds the NMOCD Closure Criteria

## **Appendix A**

### **Depth to Groundwater Information**

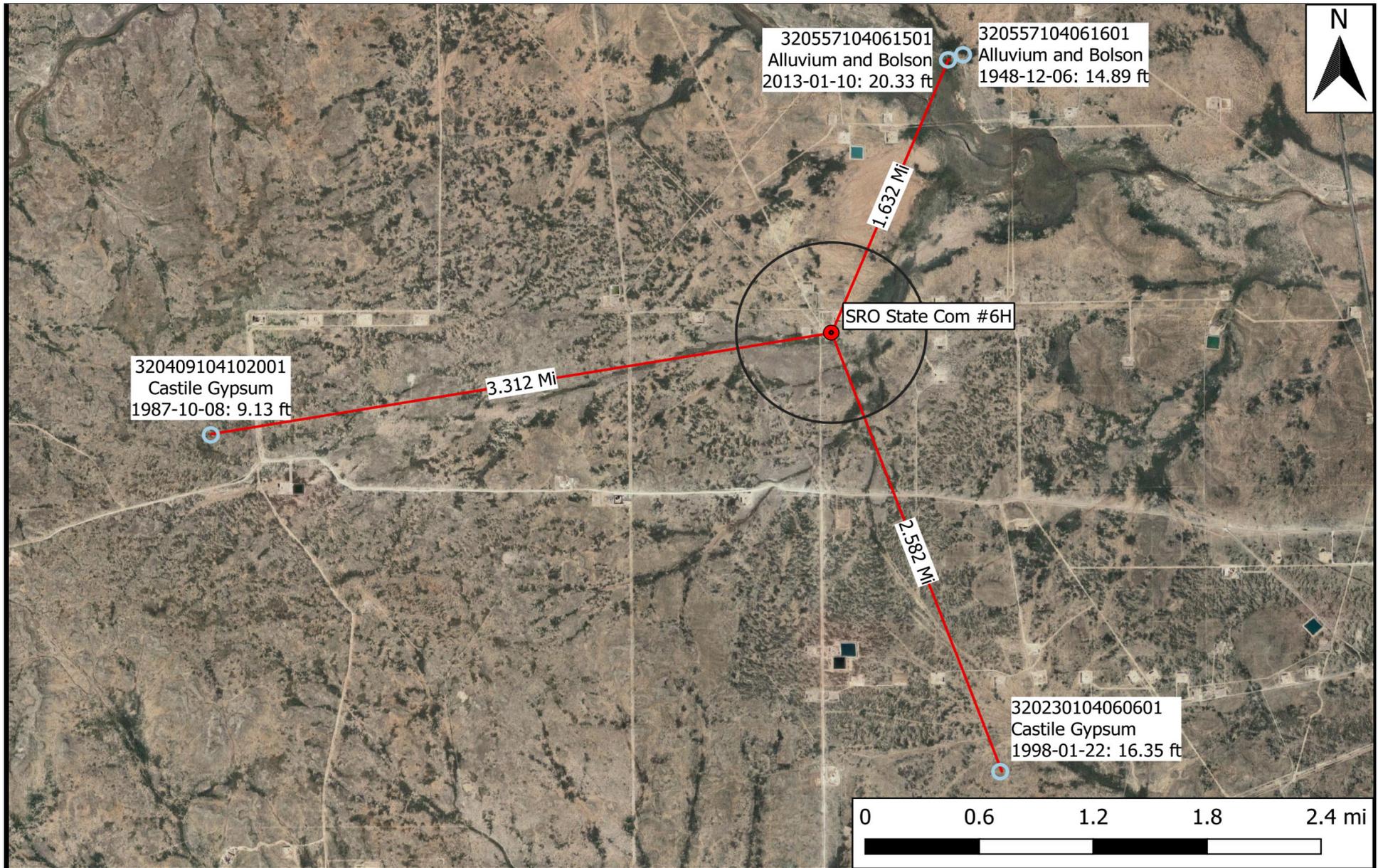


Legend  
● Site Location

**Figure 4**  
Inferred Depth to Groundwater Trend Map  
COG Operating, LLC  
SRO State Com #6H  
GPS: 32.07685, -104.11665  
Eddy County



Drafted: mag    Checked: jwl    Date: 10/11/19



- Legend
- Site Location
  - Well - USGS
  - Distance Line
  - Half Mile Radius

**Figure 5**  
 USGS Well Proximity Map  
 COG Operating, LLC  
 SRO State Com #6H  
 GPS: 32.07685, -104.11665  
 Eddy County



Drafted:                      Checked: jwl                      Date: 10/11/19



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

USGS Water Resources

Data Category:  Geographic Area:

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

### Search Results -- 1 sites found

site\_no list =  
• 320230104060601

Minimum number of levels = 1

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

### USGS 320230104060601 26S.28E.18.33111

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13070002

Latitude 32°02'30", Longitude 104°06'06" NAD27

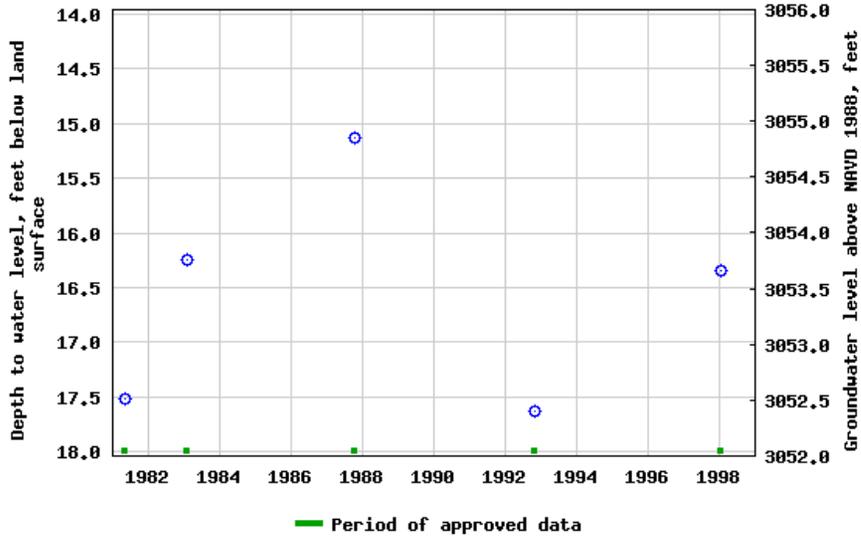
Land-surface elevation 3,070 feet above NAVD88

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

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

USGS 320230104060601 26S.28E.18.33111



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

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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: 2019-09-19 15:43:42 EDT

0.96 0.89 nadww02





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Data Category:  Geographic Area:

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Groundwater levels for the Nation

### Search Results -- 1 sites found

site\_no list =  
• 320409104102001

Minimum number of levels = 1

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

### USGS 320409104102001 26S.27E.05.44233

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°04'09", Longitude 104°10'20" NAD27

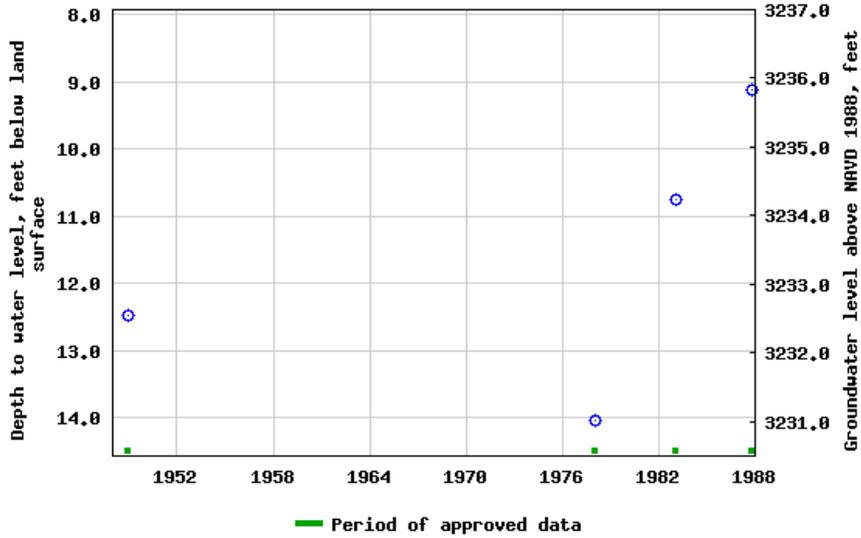
Land-surface elevation 3,245 feet above NAVD88

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

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

USGS 320409104102001 26S.27E.05.44233



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**Title: Groundwater for USA: Water Levels**

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

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0.98 0.92 nadww02





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Groundwater levels for the Nation

### Search Results -- 1 sites found

site\_no list =  
• 320557104061501

Minimum number of levels = 1

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

### USGS 320557104061501 25S.28E.29.41243A

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°05'56.0", Longitude 104°06'22.6" NAD83

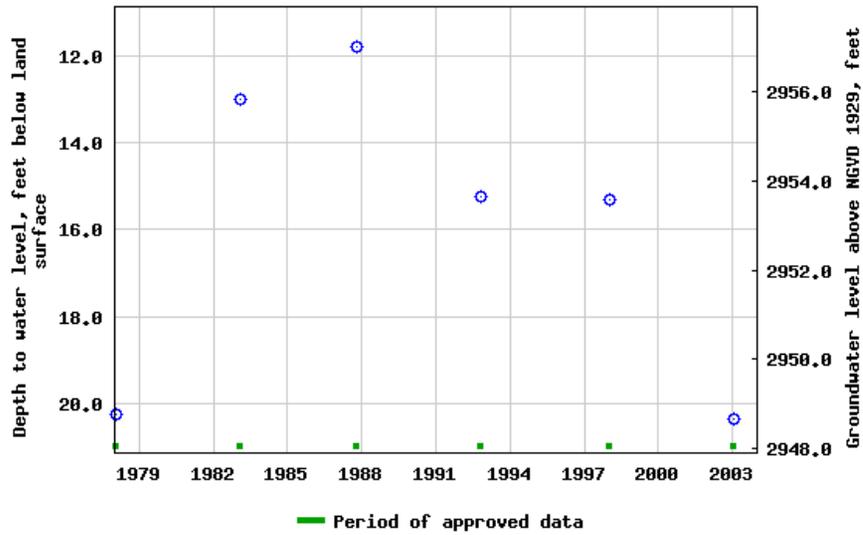
Land-surface elevation 2,968.90 feet above NGVD29

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

USGS 320557104061501 25S,28E,29,41243A



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**Title: Groundwater for USA: Water Levels**

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1.03 0.93 nadww02





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USGS Water Resources

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Groundwater levels for the Nation

### Search Results -- 1 sites found

site\_no list =  
• 320557104061601

Minimum number of levels = 1

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

### USGS 320557104061601 25S.28E.29.41243

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°05'57", Longitude 104°06'16" NAD27

Land-surface elevation 2,968 feet above NAVD88

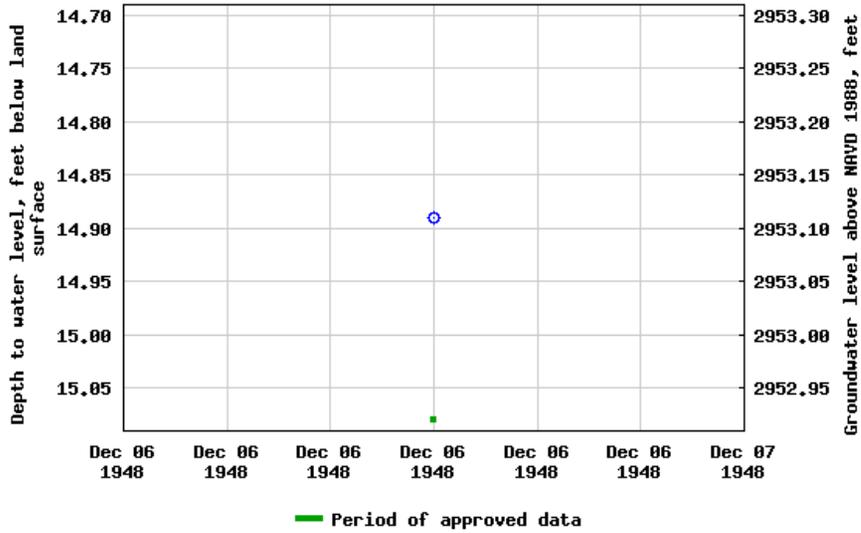
The depth of the well is 60 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

USGS 320557104061601 25S.28E.29.41243



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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: 2019-09-19 15:43:48 EDT

1.09 1.04 nadww02



## **Appendix B**

### **Field Data and Soil Profile Logs**



### Sample Log

Project: SRO State Com #4H Date: 09-19-19  
 Project Number: 11250 Latitude: 32.07711 Longitude: -104.11697

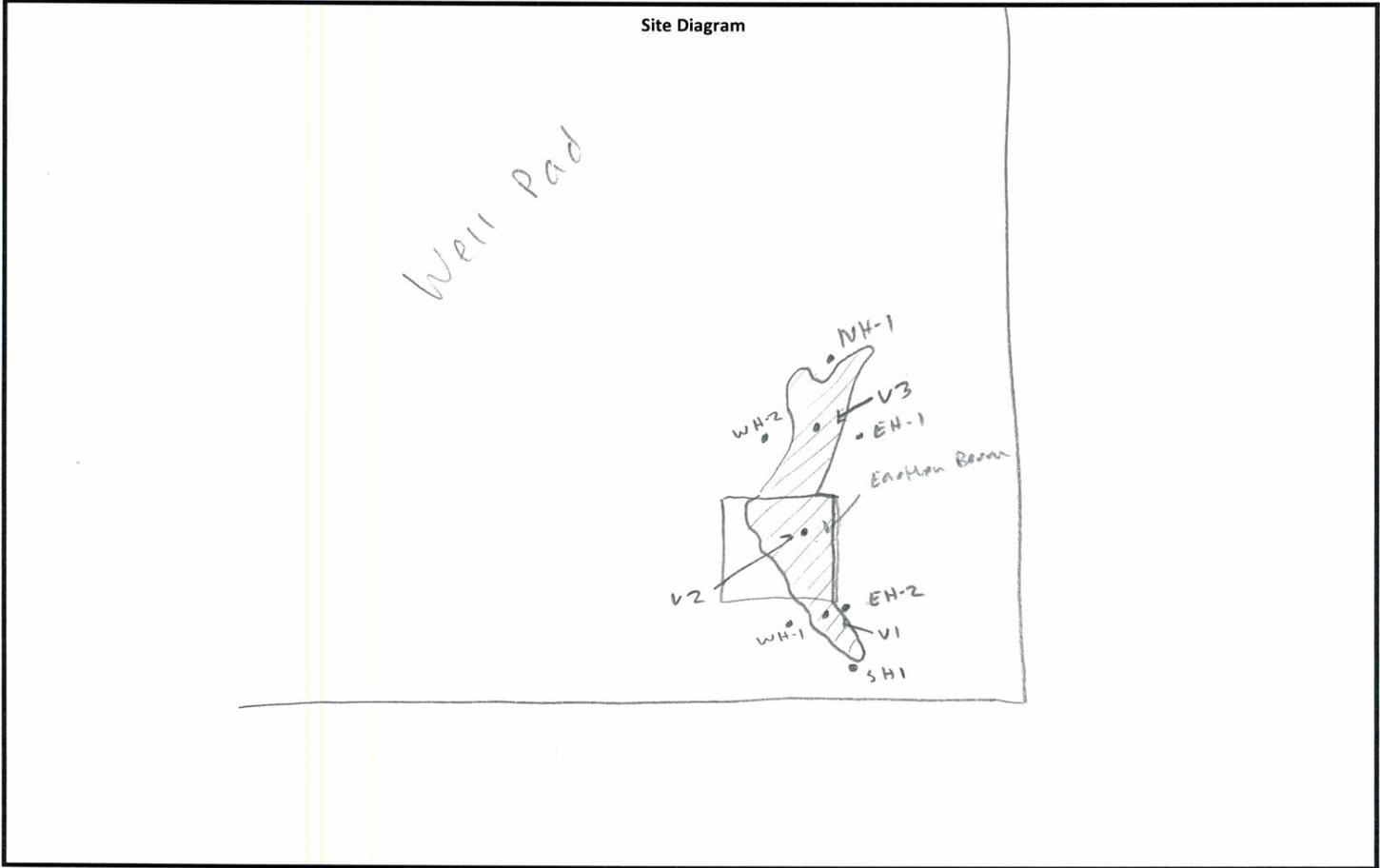
Sample ID	PID/Odor	Chloride Conc.	GPS
V-1 @ surface	No odor	52434 24756 11:00	32.07678, -104.11665
V-2 @ surface	No odor	72436 24756 11:00	32.07686, -104.11669
V-3 @ surface	No odor	72434 24756 11:02	32.07666, -104.11670
V-1 @ 1'	No odor	72436 24756 11:09	—
V-2 @ 1'	No odor	1184 11:13	—
V-3 @ 1'	No odor	114 11:58	—
V-1 @ 2'	No odor	< 114 11:59	—
V-2 @ 2'	No odor	114 1:00	—
V-3 @ 2' + 3'	No odor	114 1:03	—
NH-1 @ surface	No odor	< 114 1:15	—
WH-1 @ surface	No odor	< 114 1:20	32.07677, -104.116718
EH-1 @ surface	No odor	317 1:25	32.077017, -104.116637
ZH-2 @ surface	No odor	140 1:40	32.076800, -104.116676
SH-1 @ surface	No odor	272 1:45	32.076735, -104.116608
V-1 @ 3'	No odor	< 114 2:00	—
V-2 @ 3'	No odor	444 2:15	—
V-2 @ 4'	No odor	1032 400 2:20	—
WH-2 @ 1'	No odor	140 2:30	32.076486, -104.116765
WH-1 @ 1 1/2'	No odor	< 114 2:35	—
EH-2 @ 2'	No odor	< 114 2:40	—
EH-1 @ 1'	No odor	< 114 2:45	—
NH-1 @ 1'	No odor	140 2:50	—
WH-7 @ 5 surface	No odor	140 3:00	—
WH-1 @ 2'	No odor	2:25	—

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



### Initial Release Assessment Form

Project: SRO State Conn #6H      Clean Up Level: \_\_\_\_\_  
 Date: 9/11/2019  
 Project Number: 11250      Latitude: 32.07711      Longitude: -104.11697



**Notes:** Conduct Initial Release Assessment  
 Map Affected Area  
 Delineate Release Site  
 Conduct Chloride Field Test

~Length: 1000    ~Width: 10-30'    ~Area: ~2,500 ft<sup>2</sup>    ~Depth: 4'

- |  | Yes                                 | No                       |
|--|-------------------------------------|--------------------------|
| 3-4 Representative Pictures of the Affected Area including sample locations? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Necessary Samples Field Screened and on Ice?                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample and Field Screen Data Entered on Sample Log?                          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Was horizontal and vertical delineation achieved?                            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |



### Soil Profile

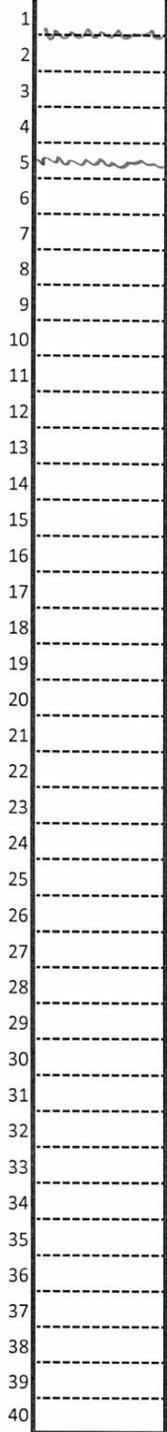
Date: 10/7/2019

Project: SRO State Com #6H

Project Number: 0 Latitude: 32.07711 Longitude: -104.11697

Depth (ft. bgs)

Description



Depth (ft. bgs)	Description
1	Import Fill / Caliche Well Pad
2	
3	
4	
5	Brown Alkali Soil
6	
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## **Appendix C**

### **Laboratory Analytical Reports**



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

---

September 27, 2019

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SRO STATE COM #6H

Enclosed are the results of analyses for samples received by the laboratory on 09/24/19 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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](http://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	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, prominent initial 'C'.

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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: V - 1 @ SURFACE (H903284-01)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.70	85.0	2.00	0.372		
Toluene*	<0.050	0.050	09/26/2019	ND	1.71	85.5	2.00	1.89		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.68	84.1	2.00	1.52		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.97	82.9	6.00	1.85		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26000	16.0	09/26/2019	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	09/25/2019	ND	187	93.6	200	6.81		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 93.4 % 41-142

Surrogate: 1-Chlorooctadecane 93.4 % 37.6-147

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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: V - 2 @ SURFACE (H903284-02)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.70	85.0	2.00	0.372		
Toluene*	<0.050	0.050	09/26/2019	ND	1.71	85.5	2.00	1.89		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.68	84.1	2.00	1.52		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.97	82.9	6.00	1.85		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>30000</b>	16.0	09/26/2019	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	09/25/2019	ND	187	93.6	200	6.81		
<b>DRO &gt;C10-C28*</b>	<b>40.0</b>	10.0	09/25/2019	ND	180	89.9	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 91.4 % 41-142

Surrogate: 1-Chlorooctadecane 96.3 % 37.6-147

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\* = 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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: V - 3 @ SURFACE (H903284-03)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.70	85.0	2.00	0.372		
Toluene*	<0.050	0.050	09/26/2019	ND	1.71	85.5	2.00	1.89		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.68	84.1	2.00	1.52		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.97	82.9	6.00	1.85		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	56800	16.0	09/26/2019	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	09/25/2019	ND	187	93.6	200	6.81		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 91.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: V - 1 @ 1' (H903284-04)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>10400</b>	16.0	09/26/2019	ND	416	104	400	3.77	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	09/25/2019	ND	187	93.6	200	6.81		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 93.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.7 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: V - 2 @ 1' (H903284-05)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	09/26/2019	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	09/25/2019	ND	187	93.6	200	6.81		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 95.8 % 37.6-147

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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  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: V - 3 @ 1' (H903284-06)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>112</b>	16.0	09/26/2019	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	09/25/2019	ND	187	93.6	200	6.81		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: V - 1 @ 2' (H903284-07)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>528</b>	16.0	09/26/2019	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	09/25/2019	ND	187	93.6	200	6.81		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 93.8 % 41-142

Surrogate: 1-Chlorooctadecane 91.8 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: V - 2 @ 2' (H903284-08)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>848</b>	16.0	09/26/2019	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	09/25/2019	ND	187	93.6	200	6.81		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 92.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.5 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: V - 3 @ 2' (H903284-09)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	09/26/2019	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	09/25/2019	ND	187	93.6	200	6.81		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: NH - 1 @ SURFACE (H903284-10)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>112</b>	16.0	09/26/2019	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	09/25/2019	ND	187	93.6	200	6.81		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 84.9 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: WH - 1 @ SURFACE (H903284-11)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 81.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>144</b>	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 77.4 % 41-142

Surrogate: 1-Chlorooctadecane 80.1 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: EH - 1 @ SURFACE (H903284-12)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>128</b>	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.6 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: EH - 2 @ SURFACE (H903284-13)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>224</b>	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
<b>DRO &gt;C10-C28*</b>	<b>774</b>	10.0	09/25/2019	ND	188	94.0	200	2.83		
<b>EXT DRO &gt;C28-C36</b>	<b>544</b>	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 75.4 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: SH - 1 @ SURFACE (H903284-14)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 75.9 % 41-142

Surrogate: 1-Chlorooctadecane 80.5 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: V - 1 @ 3' (H903284-15)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>512</b>	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 94.3 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: V - 2 @ 3' (H903284-16)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 91.0 % 41-142

Surrogate: 1-Chlorooctadecane 97.3 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: V - 2 @ 4' (H903284-17)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>272</b>	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 97.3 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: WH - 2 @ 1' (H903284-18)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: WH - 1 @ 2' (H903284-19)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>80.0</b>	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 92.6 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: SH - 1 @ 1.5' (H903284-20)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: EH - 2 @ 2' (H903284-21)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>144</b>	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 77.7 % 41-142

Surrogate: 1-Chlorooctadecane 82.1 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: EH - 1 @ 1' (H903284-22)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>272</b>	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 94.2 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: NH - 1 @ 1' (H903284-23)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>224</b>	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 83.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.6 % 37.6-147

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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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: WH - 2 @ SURFACE (H903284-24)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.96	98.0	2.00	4.45		
Toluene*	<0.050	0.050	09/26/2019	ND	1.73	86.7	2.00	3.99		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.73	86.5	2.00	3.91		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	5.31	88.4	6.00	3.67		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>592</b>	16.0	09/26/2019	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	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 87.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

- QR-02            The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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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---

Celey D. Keene, Lab Director/Quality Manager

62 jo LZ ebeD



**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.		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: Joel Lowry	P.O. Box 301	Company: Concho	P.O. #:		
Address: Lovington	State: NM Zip: 88260	Attn:	Address:		
Phone #: (575) 396-2378	Fax #: (575) 396-1429	City:	State:	Zip:	
Project #: 11250	Project Owner: Concho	Phone #:			
Project Name: SRO State Com #6H	Project Location: Rural Eddy	Fax #:			
Sampler Name: Catalina Villa					
<small>FOR LAB USE ONLY</small>					
Lab I.D. <b>HP03284</b>	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	DATE	TIME
1 V-1 @ Surface		g	1	9/19/19	11:00
2 V-2 @ Surface		g	1	9/19/19	11:00
3 V-3 @ Surface		g	1	9/19/19	11:02
4 V-1 @ 1'		g	1	9/19/19	11:09
5 V-2 @ 1'		g	1	9/19/19	11:13
6 V-3 @ 1'		g	1	9/19/19	11:58
7 V-1 @ 2'		g	1	9/19/19	11:59
8 V-2 @ 2'		g	1	9/19/19	13:00
9 V-3 @ 2'		g	1	9/19/19	13:03
10 NH-1 @ Surface		g	1	9/19/19	13:15
		MATRIX	PRESERV.	Chloride	
		GROUNDWATER	ACID/BASE:	TPH (8015M)	
		WASTEWATER	ICE / COOL	BTEX (8021B)	
		SOIL	OTHER :		
		OIL	OTHER :		
		SLUDGE			
<p><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 analysis. 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></p>					
Relinquished By: <i>[Signature]</i>	Date: 9-24-19	Time: 14:45	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: 9-24-19	Time: 14:45	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) - 2.9? <b>#197</b>	Sampler - UPS - Bus - Other: <i>Corrected - 2.52</i>	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>Jo</i>	REMARKS: Please email results to joel@etechnv.com	

FORM-006  
 Revision 1.0

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

62 jo 82 ebe d



**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. #:

Company: Concho

Address: P.O. Box 301

Attn:

Address:

City: Lovington

State: NM

City: Zip:

Phone #: (575) 396-2378

Fax #: (575) 396-1429

Project Name: SRO State Com #6H

Project #: 11250

Project Owner: Concho

Project Location: Rural Eddy

State: Zip:

Sampler Name: Catalina Villa

FOR LAB USE ONLY

MATRIX

PRESERV

DATE

SAMPLING

Lab I.D. Sample I.D.

11 WH-1 @ Surface

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER  
WASTEWATER  
SOIL  
OIL  
SLUDGE  
OTHER :

ACID/BASE:  
ICE / COOL  
OTHER :

DATE TIME

Chloride

TPH (8015M)

BTEX (8021B)

12 EH-1 @ Surface

g

1

X

X

9/19/19 13:20

X

X

13 EH-2 @ Surface

g

1

X

X

9/19/19 13:25

X

X

14 SH-1 @ Surface

g

1

X

X

9/19/19 13:40

X

X

15 V-1 @ 3'

g

1

X

X

9/19/19 13:45

X

X

16 V-2 @ 3'

g

1

X

X

9/19/19 14:00

X

X

17 V-2 @ 4'

g

1

X

X

9/19/19 14:15

X

X

18 WH-2 @ 1'

g

1

X

X

9/19/19 14:20

X

X

19 WH-1 @ 2'

g

1

X

X

9/19/19 14:30

X

X

20 SH-1 @ 1.5'

g

1

X

X

9/19/19 14:35

X

X

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Relinquished By:

Date: 9-24-19

Received By:

Signature

Relinquished By:

Date: 14.4.15

Received By:

Signature

Delivered By: (Circle One)

Time: 14.4.15

Received By:

Signature

Sample Condition

Time: 14.4.15

Received By:

Signature

FORM-006

Revision 1.0

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

Please email results to joel@etechnv.com

Phone Result:  Yes  No Add'l Phone #:  
 Fax Result:  Yes  No Add'l Fax #:  
 REMARKS:

62 jo 62 ebe d



**CARDINAL LABORATORIES**

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Etech Environmental & Safety Solutions, Inc.		P.O. #:	
Project Manager: Joel Lowry		Company:	Concho
Address: P.O. Box 301		Attn:	
City: Lovington	State: NM	Zip: 88260	
Phone #: (575) 396-2378	Fax #: (575) 396-1429	Address:	
Project #: 11250	Project Owner: Concho	City:	
Project Name: SRO State Com #6H		State:	
Project Location: Rural Eddy		Zip:	
Sampler Name: Catalina Villa		Phone #:	
		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
21	EH-2 @ 2'	g	1	x						9/19/19	14:45	x	x	x
22	EH-1 @ 1'	g	1	x						9/19/19	14:50	x	x	x
23	NH-1 @ 1'	g	1	x						9/19/19	15:00	x	x	x
24	WH-2 @ Surface	g	1	x						9/19/19	14:25	x	x	x

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Relinquished By: *[Signature]* Date: 9-25-19 Time: 14:45

Received By: *[Signature]* Date: 9-25-19 Time: 14:45

Delivered By: (Circle One) *Bus* - Bus - Other: *Contaminated* -3.9e

Sampler - UPS - Bus - Other: *Contaminated* -3.5e

Sample Condition:  Cool  Intact

CHECKED BY: *[Signature]*

Phone Result:  Yes  No  Add'l Phone #:

Fax Result:  Yes  No  Add'l Fax #:

REMARKS: Please email results to joel@etechnv.com



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

---

October 08, 2019

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SRO STATE COM #6H

Enclosed are the results of analyses for samples received by the laboratory on 10/07/19 12:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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](http://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,

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:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: F 1 @ 4' (H903398-01)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67		
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110		
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450		
Total BTEX	<0.300	0.300	10/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>112</b>	16.0	10/08/2019	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	10/07/2019	ND	199	99.3	200	1.79		
DRO >C10-C28*	<10.0	10.0	10/07/2019	ND	199	99.6	200	1.01		
EXT DRO >C28-C36	<10.0	10.0	10/07/2019	ND						

Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 84.5 % 37.6-147

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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:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: F 2 @ 4' (H903398-02)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67		
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110		
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450		
Total BTEX	<0.300	0.300	10/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 81.7% 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/08/2019	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	10/07/2019	ND	199	99.3	200	1.79		
DRO >C10-C28*	<10.0	10.0	10/07/2019	ND	199	99.6	200	1.01		
EXT DRO >C28-C36	<10.0	10.0	10/07/2019	ND						

Surrogate: 1-Chlorooctane 81.2% 41-142

Surrogate: 1-Chlorooctadecane 81.4% 37.6-147

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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:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: F 3 @ 4' (H903398-03)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67		
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110		
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450		
Total BTEX	<0.300	0.300	10/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 81.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>96.0</b>	16.0	10/08/2019	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	10/07/2019	ND	208	104	200	1.13		
DRO >C10-C28*	<10.0	10.0	10/07/2019	ND	204	102	200	0.894		
EXT DRO >C28-C36	<10.0	10.0	10/07/2019	ND						

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

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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:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: W 1 @ 2' (H903398-04)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67		
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110		
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450		
Total BTEX	<0.300	0.300	10/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 81.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>96.0</b>	16.0	10/08/2019	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	10/07/2019	ND	208	104	200	1.13		
DRO >C10-C28*	<10.0	10.0	10/07/2019	ND	204	102	200	0.894		
EXT DRO >C28-C36	<10.0	10.0	10/07/2019	ND						

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 87.6 % 37.6-147

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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:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: W 2 @ 2' (H903398-05)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67		
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110		
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450		
Total BTEX	<0.300	0.300	10/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>144</b>	16.0	10/08/2019	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	10/07/2019	ND	208	104	200	1.13		
DRO >C10-C28*	<10.0	10.0	10/07/2019	ND	204	102	200	0.894		
EXT DRO >C28-C36	<10.0	10.0	10/07/2019	ND						

Surrogate: 1-Chlorooctane 77.8 % 41-142

Surrogate: 1-Chlorooctadecane 77.7 % 37.6-147

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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:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: W 3 @ 2' (H903398-06)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67		
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110		
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450		
Total BTEX	<0.300	0.300	10/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	10/08/2019	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	10/08/2019	ND	208	104	200	1.13		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	204	102	200	0.894		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147

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**Analytical Results For:**

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

Received:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: W 4 @ 2' (H903398-07)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67		
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110		
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450		
Total BTEX	<0.300	0.300	10/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 80.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>128</b>	16.0	10/08/2019	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	10/08/2019	ND	208	104	200	1.13		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	204	102	200	0.894		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

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**Analytical Results For:**

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

Received:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: W 5 @ 2' (H903398-08)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67		
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110		
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450		
Total BTEX	<0.300	0.300	10/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 81.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	10/08/2019	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	10/08/2019	ND	208	104	200	1.13		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	204	102	200	0.894		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 80.9 % 41-142

Surrogate: 1-Chlorooctadecane 82.6 % 37.6-147

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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:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: W 6 @ 4' (H903398-09)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67		
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110		
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450		
Total BTEX	<0.300	0.300	10/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 80.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>96.0</b>	16.0	10/08/2019	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	10/08/2019	ND	208	104	200	1.13		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	204	102	200	0.894		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 84.3 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

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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:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: W 7 @ 4' (H903398-10)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67		
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110		
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450		
Total BTEX	<0.300	0.300	10/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>96.0</b>	16.0	10/08/2019	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	10/08/2019	ND	208	104	200	1.13		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	204	102	200	0.894		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 94.4 % 41-142

Surrogate: 1-Chlorooctadecane 99.3 % 37.6-147

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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A handwritten signature in cursive script that reads "Caley D. Keene".

---

Caley D. Keene, Lab Director/Quality Manager

31 Jo 31 ebe d



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.	<b>P.O. #:</b>
<b>Project Manager:</b> Daniel Dominguez	<b>Company:</b> Concho
<b>Address:</b> P.O. Box 301	<b>Attn:</b>
<b>City:</b> Lovington	<b>State:</b> NM
<b>Phone #:</b> (575) 396-2378	<b>Fax #:</b> (575) 396-1429
<b>Project #:</b> 11250	<b>Project Owner:</b> Concho
<b>Project Name:</b> SRO State Com #6H	<b>City:</b>
<b>Project Location:</b> Rural Eddy	<b>State:</b>
<b>Sampler Name:</b> Dustin Crockett	<b>Phone #:</b>
	<b>Fax #:</b>

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
	F1 @ 4'	C	1	X									10/4/19	11:00	X	X	X
	F2 @ 4'	C	1	X									10/4/19	11:10	X	X	X
	F3 @ 4'	C	1	X									10/4/19	11:20	X	X	X
	W1 @ 2'	C	1	X									10/4/19	11:45	X	X	X
	W2 @ 2'	C	1	X									10/4/19	12:00	X	X	X
	W3 @ 2'	C	1	X									10/4/19	12:15	X	X	X
	W4 @ 2'	C	1	X									10/4/19	12:30	X	X	X
	W5 @ 2'	C	1	X									10/4/19	12:45	X	X	X
	W6 @ 4'	C	1	X									10/4/19	13:00	X	X	X
	W7 @ 4'	C	1	X									10/4/19	13:15	X	X	X

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<b>Relinquished By:</b> <i>[Signature]</i>	<b>Date:</b> 10-27-19	<b>Received By:</b> <i>[Signature]</i>
<b>Relinquished By:</b> <i>[Signature]</i>	<b>Date:</b> 12-25	<b>Received By:</b> <i>[Signature]</i>
<b>Delivered By: (Circle One)</b> 0.32	<b>#97</b>	<b>CHECKED BY:</b> (Initials)
<b>Sampler - UPS - Bus - Other:</b> <i>Corrected 0.72</i>	<input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

FORM-006  
 Revision 1.0  
 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

**REMARKS:**

Rush processing.  
 Please email results to daniel@etechnv.com and joel@etechnv.com.

**Phone Result:**  Yes  No **Add'l Phone #:**

**Fax Result:**  Yes  No **Add'l Fax #:**



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---

October 09, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SRO STATE COM #6H

Enclosed are the results of analyses for samples received by the laboratory on 10/08/19 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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](http://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.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: F 4 (H903407-01)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>176</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: F 5 (H903407-02)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: W 8 (H903407-03)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 99.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: W 9 (H903407-04)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>272</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: W 10 (H903407-05)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>240</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 98.9 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: W 11 (H903407-06)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>112</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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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  
 LANCE CRENSHAW  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: W 12 (H903407-07)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>96.0</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 98.3 % 37.6-147

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**Analytical Results For:**

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: W 13 (H903407-08)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>160</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 99.0 % 37.6-147

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**Analytical Results For:**

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: F 6 (H903407-09)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>160</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 87.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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**Analytical Results For:**

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 LANCE CRENSHAW  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: F 12 (H903407-10)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.93	96.4	2.00	0.742		
Toluene*	<0.050	0.050	10/08/2019	ND	1.91	95.4	2.00	1.71		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	2.04	102	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	6.04	101	6.00	2.22		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>160</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 92.5 % 41-142

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

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**Analytical Results For:**

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: F 11 (H903407-11)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.93	96.4	2.00	0.742		
Toluene*	<0.050	0.050	10/08/2019	ND	1.91	95.4	2.00	1.71		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	2.04	102	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	6.04	101	6.00	2.22		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>144</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 86.6 % 41-142

Surrogate: 1-Chlorooctadecane 89.2 % 37.6-147

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**Analytical Results For:**

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: F 10 (H903407-12)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.93	96.4	2.00	0.742		
Toluene*	<0.050	0.050	10/08/2019	ND	1.91	95.4	2.00	1.71		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	2.04	102	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	6.04	101	6.00	2.22		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>112</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 91.8 % 41-142

Surrogate: 1-Chlorooctadecane 95.3 % 37.6-147

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**Analytical Results For:**

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: F 9 (H903407-13)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.93	96.4	2.00	0.742		
Toluene*	<0.050	0.050	10/08/2019	ND	1.91	95.4	2.00	1.71		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	2.04	102	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	6.04	101	6.00	2.22		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>144</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

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**Analytical Results For:**

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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: F 8 (H903407-14)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.93	96.4	2.00	0.742		
Toluene*	<0.050	0.050	10/08/2019	ND	1.91	95.4	2.00	1.71		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	2.04	102	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	6.04	101	6.00	2.22		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>176</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 85.0 % 41-142

Surrogate: 1-Chlorooctadecane 87.1 % 37.6-147

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**Analytical Results For:**

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

**Sample ID: F 7 (H903407-15)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.93	96.4	2.00	0.742		
Toluene*	<0.050	0.050	10/08/2019	ND	1.91	95.4	2.00	1.71		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	2.04	102	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	6.04	101	6.00	2.22		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>144</b>	16.0	10/08/2019	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	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 83.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.2 % 37.6-147

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

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

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\*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

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**ARDINAL LABORATORIES**  
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 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: COG		<b>BILL TO</b>		ANALYSIS REQUEST									
Project Manager: Lance Crenshaw		P.O. #:											
Address:		Company: COG											
City: State: Zip:		Attn:											
Phone #: Fax #:		Address:											
Project #: 11250 Project Owner:		City: Zip:											
Project Name: SRO State Com #6H		State: Zip:											
Project Location:		Phone #:											
Sampler Name: Tyler Griffin		Fax #:											
FOR LAB USE ONLY		PRESERV		SAMPLING									
Lab I.D.  Sample I.D.  H903407	(G)RAB OR (C)OMP.	MATRIX		DATE		TIME		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
	F4	G	1	✓	10/7/19	08:00	✓	✓	✓	✓			
	F5	G	1	✓	10/7/19	08:10	✓	✓	✓	✓			
	W8	G	1	✓	10/7/19	08:15	✓	✓	✓	✓			
	W9	G	1	✓	10/7/19	08:35	✓	✓	✓	✓			
	W10	G	1	✓	10/7/19	09:00	✓	✓	✓	✓			
	W11	G	1	✓	10/7/19	09:10	✓	✓	✓	✓			
	W12	G	1	✓	10/7/19	09:14	✓	✓	✓	✓			
	W13	G	1	✓	10/7/19	09:20	✓	✓	✓	✓			
	F6	G	1	✓	10/7/19	09:35	✓	✓	✓	✓			
	F12	G	1	✓	10/7/19	09:40	✓	✓	✓	✓			

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Relinquished By: <i>[Signature]</i>	Date: 10/9	Received By: <i>[Signature]</i>	Date: 10/9
Delivered By: (Circle One) <i>UPS</i>	Time: 0815	Sample Condition	CHECKED BY: <i>[Signature]</i>
Sampler - UPS - Bus - Other: <i>Conserved - 24hrs</i>		Cool <input type="checkbox"/> Intact <input type="checkbox"/>	(Initials) <i>TS</i>
		Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Yes <input type="checkbox"/> No <input type="checkbox"/>	

Phone Result:  Yes  No Add'l Phone #: *[Blank]*  
 Fax Result:  Yes  No Add'l Fax #: *[Blank]*  
 REMARKS: email results pm@etechnv.com *Russell!*

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



## **Appendix D**

### **Photographic Log**

### Photographic Log

<b>Photo Number:</b> 1	 <p>10/3/19, 10:01 AM +32.077001,-104.116836</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b> View of Surface Staining from the Initial Release	

<b>Photo Number:</b> 2	 <p>10/3/19, 9:28 AM +32.076739,-104.116684</p>
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b> View of Surface Staining from the Initial Release	

### Photographic Log

<b>Photo Number:</b> 3
<b>Photo Direction:</b> North
<b>Photo Description:</b> View of Portion of the Excavated area.



10/8/19, 9:42 AM  
+32.076885,-104.116732

<b>Photo Number:</b> 4
<b>Photo Direction:</b> Southeast
<b>Photo Description:</b> View of Portion of the Excavated area.



10/8/19, 9:43 AM  
+32.076880,-104.116739

### Photographic Log

<b>Photo Number:</b> 5	 <p>10/8/19, 9:43 AM +32.076815,-104.116627</p>
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b> Veiw of Portion of the Excavated area.	

<b>Photo Number:</b> 6	 <p>11/10/2019 13:17 +32.076844,-104.116585</p>
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b> Veiw of the release site after excavation activities.	