

Incident ID	nAPP2220252604
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>185</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

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

Printed Name: Charles Beauvais Title: Sr. Environmental Engineer

Signature: Charles R. Beauvais ?? Date: 10/17/2022

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

**OCD Only**

Received by: Jocelyn Harimon Date: 10/17/2022

Incident ID	nAPP2220252604
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## Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Charles Beauvais Title: Sr. Environmental Engineer  
 Signature: *Charles R. Beauvais* Date: 10/17/2022  
 email: Charles.R.Beauvais@ConocoPhillips.com Telephone: (575)988-2043

**OCD Only**

Received by: Jocelyn Harimon Date: 10/17/2022

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

Closure Approved by: *Jennifer Nobui* Date: 11/14/2022  
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

# Remediation Summary & Soil Closure Request

## ConocoPhillips Company Smith Ranch Federal 2-11

Lea County, New Mexico  
Unit Letter C, Section 11, Township 20 South, Range 33 East  
Latitude 32.593056 North, Longitude 103.635556 West  
NMOCD Reference No. nAPP2220252604

Prepared By:

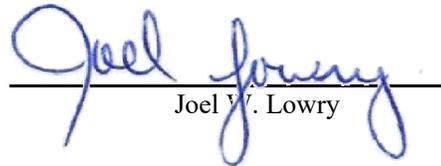
### Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D  
Lubbock, Texas 79413



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Ben J. Arguijo



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Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of ConocoPhillips Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Smith Ranch Federal 2-11. Details of the release are summarized below:

<b>Location of Release Source</b>				
Latitude: <u>32.593056</u>		Longitude: <u>-103.6355560</u>		
Provided GPS are in WGS84 format.				
Site Name: <u>Smith Ranch Federal 2-11</u>		Site Type: <u>Tank Battery</u>		
Date Release Discovered: <u>7/18/2022</u>		API # (if applicable): <u>30-015-31138</u>		
Unit Letter	Section	Township	Range	County
C	11	20S	33E	Lea
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Private (Name _____)				
<b>Nature and Volume of Release</b>				
<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	9.034	Volume Recovered (bbls)	2
<input type="checkbox"/> Produced Water	Volume Released (bbls)		Volume Recovered (bbls)	
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released		Volume/Weight Recovered	
Cause of Release: The release was attributed to a hole in the bottom of a tank due to corrosion. The release was limited to the earthen containment berm and did not affect the adjacent pasture. During initial response activities, a vacuum truck was dispatched to remove all freestanding fluids.				
<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 in 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 Smith Ranch Federal 2-11 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?	185'
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Smith Ranch Federal 2-11 release site are as follows:

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

\* Measured in milligrams per kilogram (mg/kg)

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

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

## 4.0 INITIAL SITE ASSESSMENT

On July 29, 2022, Etech conducted an initial site assessment. During the initial site assessment, three (3) hand-augered soil bores (V1, V2, and V3) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, six (6) hand-augered soil bores (NH1, EH1, EH2, SH1, WH1, and WH2) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit. The soil bores were advanced in one (1) foot increments until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards or until refusal was met.

Based on field observations and field test data, a total of 19 delineation soil samples (NH1 @ Surface, NH1 @ 1', EH1 @ Surface, EH1 @ 1', EH2 @ Surface, EH2 @ 1', SH1 @ Surface, SH1 @ 1', WH1 @ Surface, WH1 @ 1', WH2 @ Surface, WH2 @ 1', V1 @ Surface, V1 @ 4', V1 @ 7' - R, V2 @ Surface, V2 @ 3', V3 @ Surface, and V3 @ 1.5' - R) were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of impacted soil was adequately defined. Impacted soil did not extend vertically beyond three (3) feet below ground surface (bgs) in the area characterized by sample point V2 or beyond seven (7) feet bgs in the area characterized by sample point V1. However, additional vertical delineation and/or excavation beyond the point of refusal was required in the area characterized by sample point V3.

The extent of the affected area and the locations of the hand-augered soil bores are depicted in Figure 3A, "Site & Sample Location Map (Delineation)".

## 5.0 REMEDIATION ACTIVITIES SUMMARY

On September 9, 2022, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On September 12, 2022, Etech collected 27 confirmation soil samples (NW1 through NW4, EW1, EW2, EW3, SW1, SW2, SW3, WW1 through WW4, and FL 1 @ 5' through FL 13 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX concentrations were below the NMOCD Closure Criterion, NMOCD Reclamation Standard, and laboratory method detection limit (MDL) in each of the submitted soil samples. TPH concentrations ranged from less than the laboratory MDL in soil samples NW1, NW4, EW2, EW3, SW1, WW2, WW3, WW4, FL 1 @ 5' through FL 7 @ 3', FL 10 @ 3', FL 12 @ 4', and FL 13 @ 4' to 152 mg/kg in soil sample FL 8 @ 3', which exceeded the NMOCD Reclamation Standard. Chloride concentrations ranged from 16.0 mg/kg in soil sample FL 6 @ 3' to 2,720 mg/kg in soil sample FL 9 @ 3'. Chloride concentrations in soil samples EW2, FL 9 @ 3', and FL 11 @ 4' exceeded the NMOCD Reclamation Standard.

During the course of excavation activities, it was discovered that a portion of the release (i.e., the area characterized by soil samples FL 2 @ 3', FL 3 @ 3', and FL 4 @ 3') had impacted an area which had been previously remediated and lined with an impermeable, 20-mil, poly liner (see NMOCD ID #nOY1809347988). A visual inspection of the liner was performed to check its integrity and confirm that it remained intact. No holes or breaches were discovered during the inspection.

On September 14, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples EW2, FL 8 @ 3', FL 9 @ 3', and FL 11 @ 4'. Etech collected four (4) confirmation soil samples (EW2B, FL 8 @ 4', FL 9 @ 4', and FL 11 @ 5') from the sidewalls and floor of the newly excavated area. Soil sample FL 8 @ 4' was submitted to the laboratory for analysis of TPH, and soil samples EW2B, FL 9 @ 4', and FL 11 @ 5' were submitted for analysis of chloride. Laboratory analytical results indicated the TPH concentration in soil sample FL 8 @ 4' was below the NMOCD Closure Criterion, NMOCD Reclamation Standard, and laboratory MDL. Chloride concentrations were below the NMOCD Closure Criterion and NMOCD Reclamation Standard in each of the submitted soil samples and ranged from 32.0 mg/kg in soil sample EW2B to 80.0 mg/kg in soil sample FL 9 @ 4'.

The final dimensions of the excavated area were approximately 102 feet in length, 3 to 38 feet in width, and three (3) to five (5) feet in depth. During the course of remediation activities, Etech transported approximately 340 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 340 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

## **6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN**

The release was limited to the containment area of an active tank battery facility. Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions and contoured/compacted to fit the needs of the facility. Final reclamation and re-vegetation will be conducted upon decommissioning and abandonment of the tank battery.

## **7.0 SOIL CLOSURE REQUEST**

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends ConocoPhillips Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Smith Ranch Federal 2-11 release site.

## **8.0 LIMITATIONS**

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

This report has been prepared for the benefit of ConocoPhillips Company. Use of the information contained in this report is prohibited without the consent of Etech and/or ConocoPhillips Company.

## 9.0 DISTRIBUTION

***ConocoPhillips Company***

*3300 B A St.  
Midland, TX 79705*

***New Mexico Energy, Minerals and Natural Resources Department***

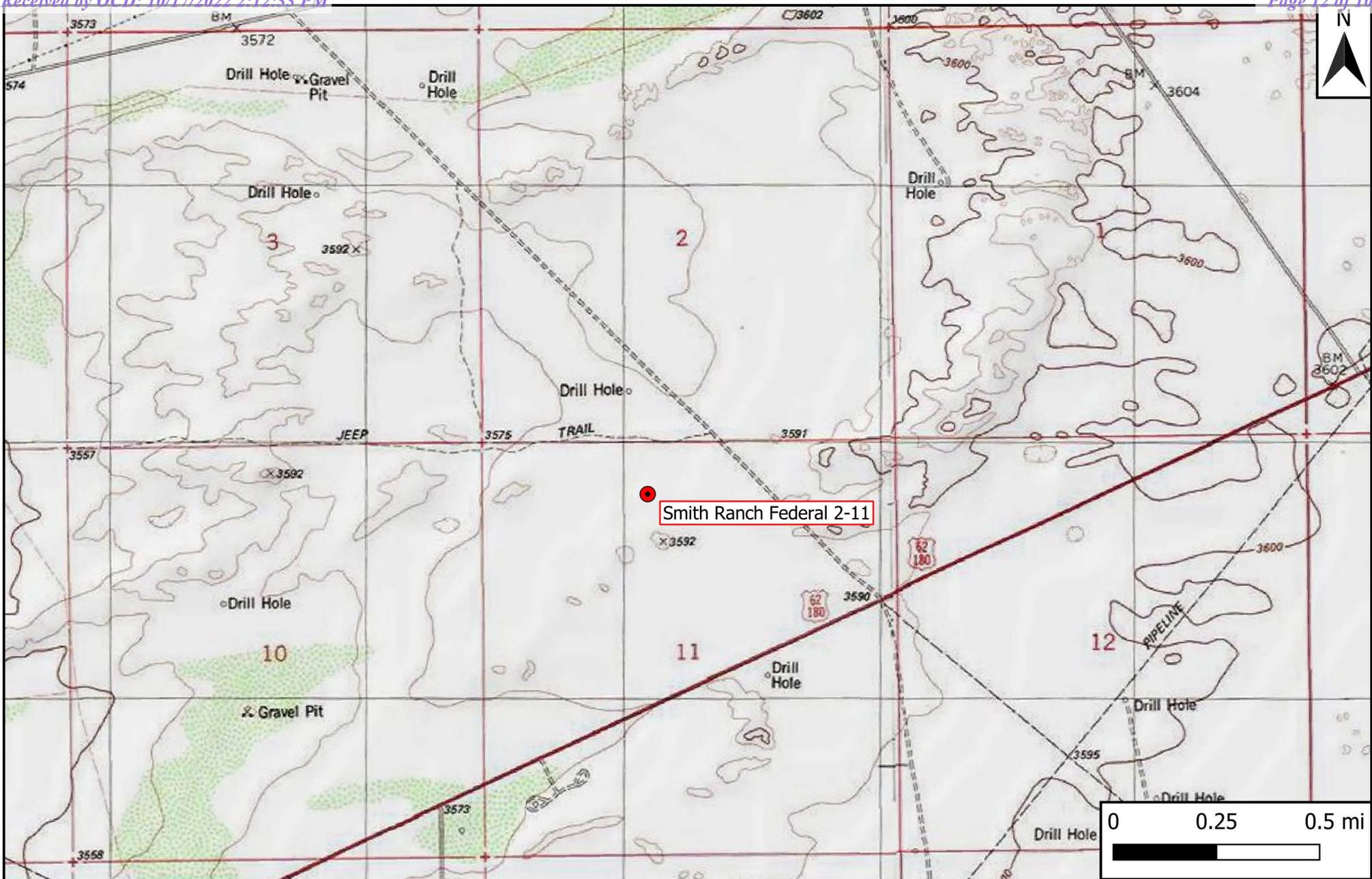
*Oil Conservation Division, District 1  
1220 South St. Francis Drive  
Santa Fe, NM 87505*

***United States Department of the Interior***

*Bureau of Land Management  
620 E. Greene Street  
Carlsbad, NM 88220*

*(Electronic Submission)*

# Figure 1 Topographic Map



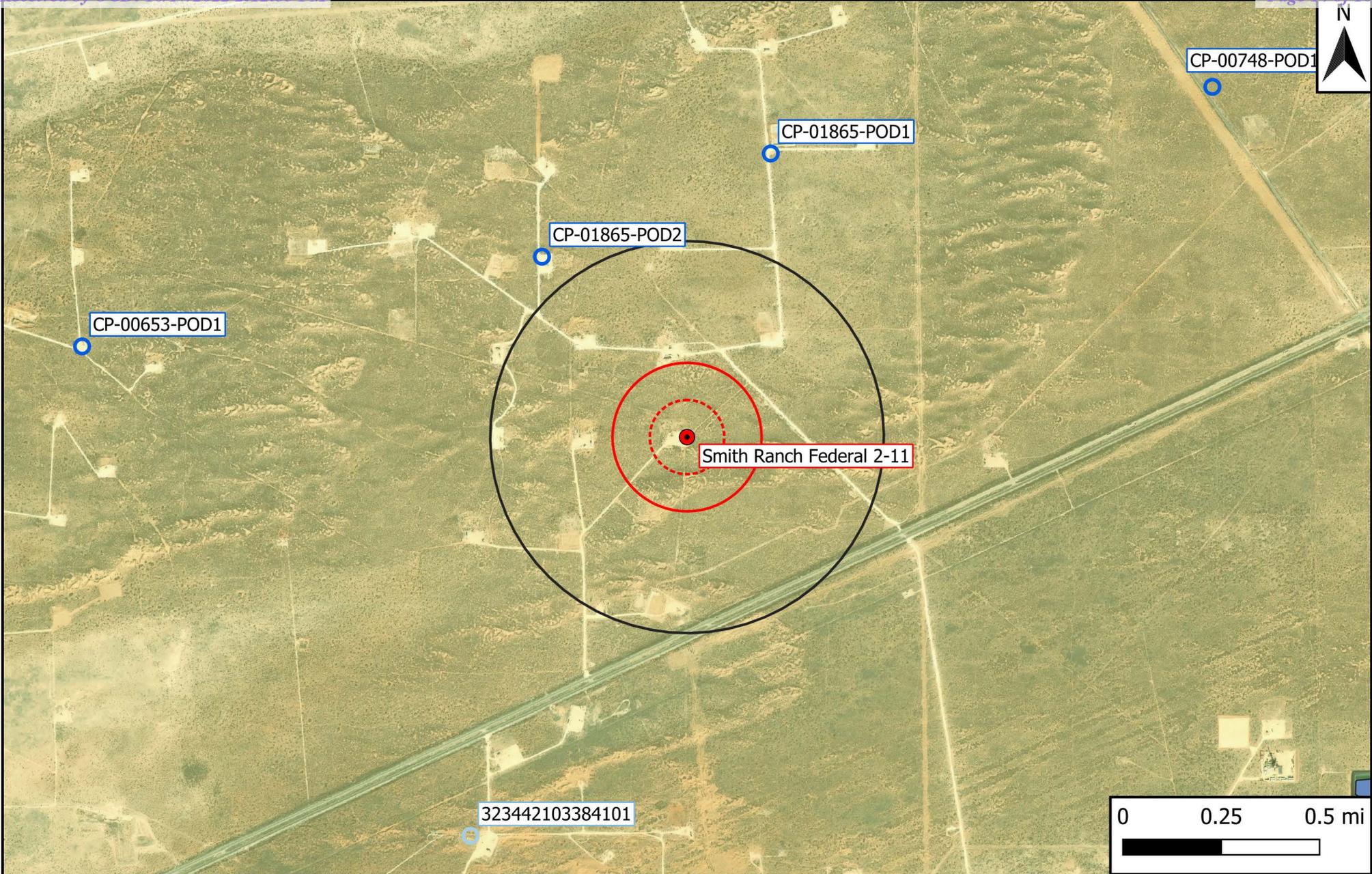
Legend  
 ● Site Location

**Figure 1**  
 Topographic Map  
 ConocoPhillips Company  
 Smith Ranch Federal 2-11  
 GPS: 32.593056, -103.635556  
 Lea County



Drafted: bja      Checked: kp      Date: 9/16/22

## Figure 2 Site Characterization Map



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

**Figure 2**  
 Site Characterization Map  
 ConocoPhillips Company  
 Smith Ranch Federal 2-11  
 GPS: 32.593056, -103.635556  
 Lea County



**Figures 3A & 3B**  
**Site & Sample Location Maps**



- Legend**
- Affected Area
  - Delineation Sample Location

**Figure 3A**  
 Site & Sample Location Map (Delineation)  
 ConocoPhillips Company  
 Smith Ranch Federal 2-11  
 GPS: 32.593056, -103.635556  
 Lea County





**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**

Table 1 Concentrations of BTEX, TPH & Chloride in Soil ConocoPhillips Company Smith Ranch Federal 2-11 NMOCD Ref. #: nAPP2220252604											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <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)
Delineation Samples											
NH1 @ Surface	7/29/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	100	100	85.8	186	32.0
NH1 @ 1'	7/29/2022	0.5-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH1 @ Surface	7/29/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	49.2	49.2	25.7	74.9	144
EH1 @ 1'	7/29/2022	0.5-1	In-Situ	<0.050	<0.300	<10.0	19.9	19.9	<10.0	19.9	176
EH2 @ Surface	7/29/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	12.7	12.7	<10.0	12.7	144
EH2 @ 1'	7/29/2022	0.5-1	In-Situ	<0.050	<0.300	<10.0	11.9	11.9	<10.0	11.9	160
SH1 @ Surface	7/29/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	19.6	19.6	<10.0	19.6	144
SH1 @ 1'	7/29/2022	0.5-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WH1 @ Surface	7/29/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	35.6	35.6	<10.0	35.6	32.0
WH1 @ 1'	7/29/2022	0.5-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WH2 @ Surface	7/29/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WH2 @ 1'	7/29/2022	0.5-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
V1 @ Surface	7/29/2022	0-0.5	Excavated	<0.050	<0.300	<50.0	20,100	<b>20,100</b>	5,280	<b>25,400</b>	48.0
V1 @ 4'	7/29/2022	3.5-4	Excavated	<0.050	<0.300	10.9	999	<b>1,010</b>	242	<b>1,250</b>	48.0
V1 @ 7' - R	7/29/2022	6.5-7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
V2 @ Surface	7/29/2022	0-0.5	Excavated	<0.050	<0.300	<50.0	16,700	<b>16,700</b>	4,240	<b>20,900</b>	80.0
V2 @ 3'	7/29/2022	2.5-3	Excavated	<0.050	<0.300	<10.0	91.8	91.8	16.8	<b>109</b>	208
V3 @ Surface	7/29/2022	0-0.5	Excavated	<0.050	<0.300	<100	30,000	<b>30,000</b>	7,290	<b>37,300</b>	96.0
V3 @ 1.5' - R	7/29/2022	1-1.5	Excavated	<0.050	5.30	160	20,900	<b>21,100</b>	4,640	<b>25,700</b>	112
Excavation Samples											
NW1	9/12/2022	0.5-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW2	9/12/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	74.1	74.1	17.9	92.0	32.0
NW3	9/12/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	28.7	28.7	<10.0	28.7	128
NW4	9/12/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW1	9/12/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	11.2	11.2	<10.0	11.2	128
EW2	9/12/2022	0.5-3.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>1,280</b>
EW2B	9/14/2022	0.5-3.5	In-Situ	-	-	-	-	-	-	-	32.0
EW3	9/12/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW1	9/12/2022	0.5-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
SW2	9/12/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	39.4	39.4	31.0	70.4	48.0
SW3	9/12/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	10.1	10.1	384
WW1	9/12/2022	0.5-4.5	In-Situ	<0.050	<0.300	<10.0	64.6	64.6	15.0	79.6	496
WW2	9/12/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW3	9/12/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
WW4	9/12/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 1 @ 5'	9/12/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 2 @ 3'	9/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
FL 3 @ 3'	9/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 4 @ 3'	9/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 5 @ 3'	9/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 6 @ 3'	9/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0

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

**Bold:** NMOCD Closure Criteria exceedance.**Red:** NMOCD Reclamation Standard exceedance.

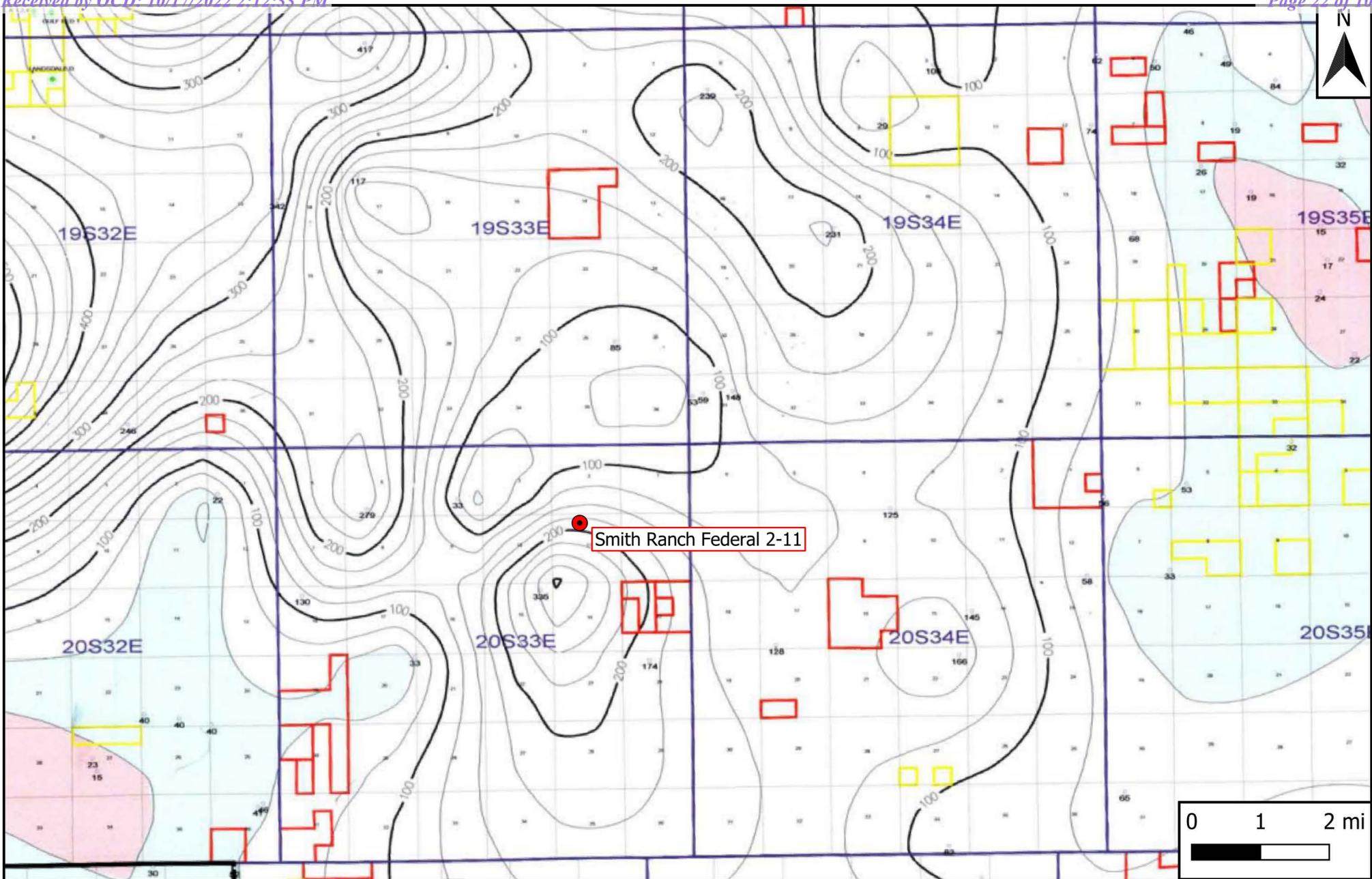
<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>ConocoPhillips Company</b> <b>Smith Ranch Federal 2-11</b> <b>NMOCD Ref. #: nAPP2220252604</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <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)
FL 7 @ 3'	9/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 8 @ 3'	9/12/2022	3	Excavated	<0.050	<0.300	<10.0	118	118	33.8	152	48.0
FL 8 @ 4'	9/14/2022	4	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 9 @ 3'	9/12/2022	3	Excavated	<0.050	<0.300	<10.0	20.8	20.8	11.6	32.4	2,720
FL 9 @ 4'	9/14/2022	4	In-Situ	-	-	-	-	-	-	-	80.0
FL 10 @ 3'	9/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 11 @ 4'	9/12/2022	4	Excavated	<0.050	<0.300	<10.0	19.5	19.5	10.5	30.0	2,400
FL 11 @ 5'	9/14/2022	5	In-Situ	-	-	-	-	-	-	-	48.0
FL 12 @ 4'	9/12/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
FL 13 @ 4'	9/12/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128

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

**Bold:** NMOCD Closure Criteria exceedance.**Red:** NMOCD Reclamation Standard exceedance.

# **Appendix A**

## **Depth to Groundwater Information**



Legend  
 ● Site Location

**Figure 4**  
 Inferred Depth to Groundwater Trend Map  
 ConocoPhillips Company  
 Smith Ranch Federal 2-11  
 GPS: 32.593056, -103.635556  
 Lea County



Drafted: bja

Checked: kp

Date: 9/16/22



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 01865 POD2</a>	CP	LE	3	1	3	02	20S	33E	627454	3607733		946	105	0	105
<a href="#">CP 01865 POD1</a>	CP	LE	4	3	2	02	20S	33E	628390	3608155		1209	105	0	105

Average Depth to Water: **0 feet**  
 Minimum Depth: **0 feet**  
 Maximum Depth: **0 feet**

**Record Count: 2**

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 628047.32

**Northing (Y):** 3606995.94

**Radius:** 1610

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7/29/22 10:05 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						
		(quarters are smallest to largest)					(NAD83 UTM in meters)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b> <b>Y</b>
NA	CP 01865 POD1	4	3	2	02	20S	33E	628390    3608155

<b>Driller License:</b> 1753	<b>Driller Company:</b> VANGUARD WATER WELLS	
<b>Driller Name:</b> FRIESSEN, JACOBOIELNER		
<b>Drill Start Date:</b> 02/08/2021	<b>Drill Finish Date:</b> 02/08/2021	<b>Plug Date:</b>
<b>Log File Date:</b> 07/22/2021	<b>PCW Rcv Date:</b>	<b>Source:</b>
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 0 GPM
<b>Casing Size:</b> 2.00	<b>Depth Well:</b> 105 feet	<b>Depth Water:</b> 0 feet

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

7/29/22 10:05 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)	
		(quarters are smallest to largest)				X	Y
		Q64	Q16	Q4	Sec	Tws	Rng
NA	CP 01865 POD2	3	1	3	02	20S	33E
						627454	3607733

---

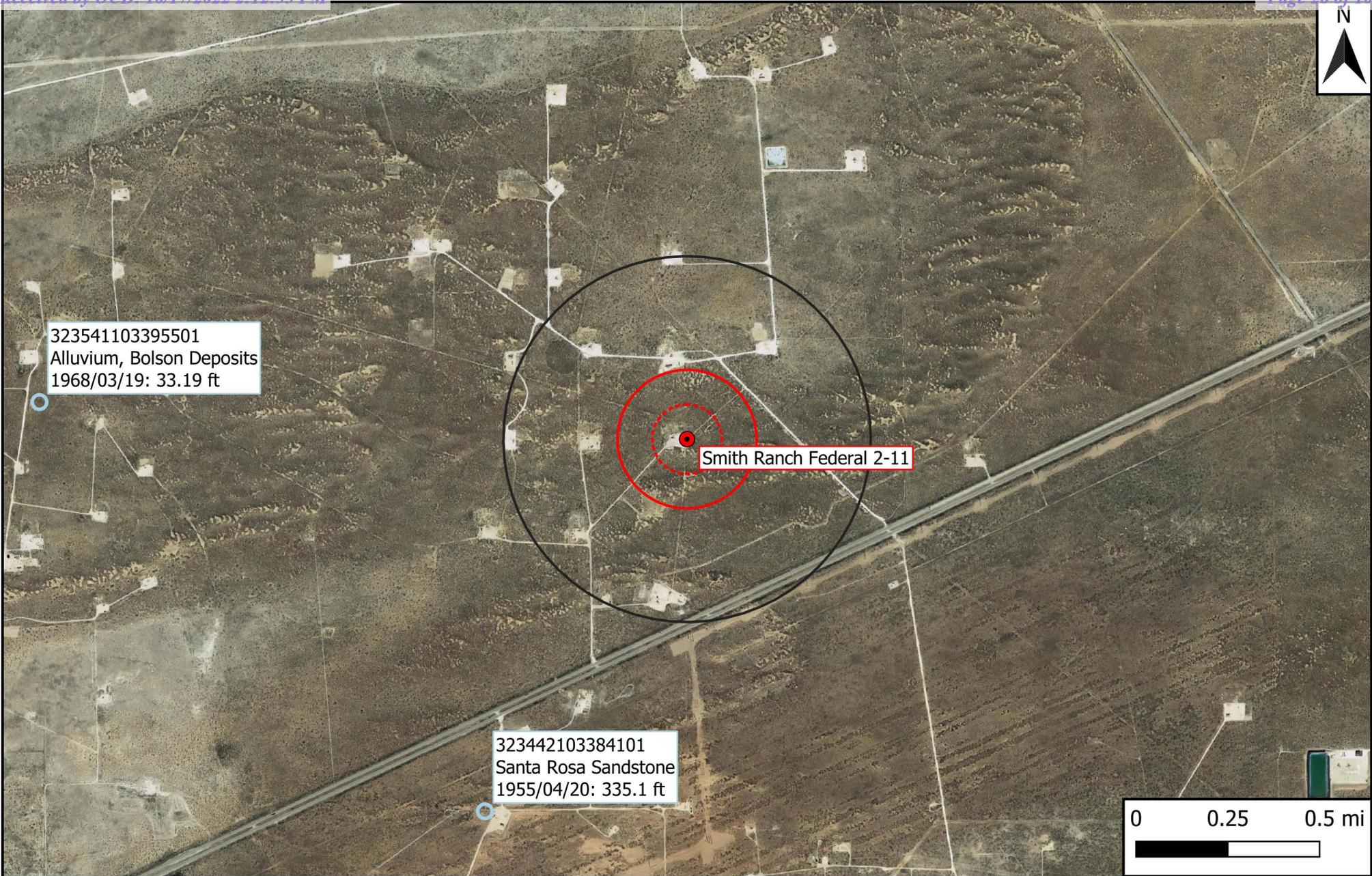
<b>Driller License:</b> 1753	<b>Driller Company:</b> VANGUARD WATER WELLS	
<b>Driller Name:</b> FRIESSEN, JACOBOIELNER		
<b>Drill Start Date:</b> 02/08/2021	<b>Drill Finish Date:</b> 02/08/2021	<b>Plug Date:</b>
<b>Log File Date:</b> 07/22/2021	<b>PCW Rcv Date:</b>	<b>Source:</b>
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 0 GPM
<b>Casing Size:</b> 2.00	<b>Depth Well:</b> 105 feet	<b>Depth Water:</b> 0 feet

---

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7/29/22 10:05 AM

POINT OF DIVERSION SUMMARY



Legend

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

Figure 5

USGS Well Proximity Map  
 ConocoPhillips Company  
 Smith Ranch Federal 2-11  
 GPS: 32.593056, -103.635556  
 Lea County



Drafted: bja

Checked: kp

Date: 9/16/22



**National Water Information System: Web Interface**

[USGS Water Resources](#)

Data Category:  Geographic Area:

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Groundwater levels for the Nation

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

**Search Results -- 1 sites found**

**Agency code** = usgs  
**site\_no list** =  
 • 323442103384101

**Minimum number of levels** = 1  
[Save file of selected sites](#) to local disk for future upload

**USGS 323442103384101 20S.33E.15.22143**

Lea County, New Mexico  
 Latitude 32°34'42", Longitude 103°38'41" NAD27  
 Land-surface elevation 3,583 feet above NAVD88  
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
 This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

**Output formats**

- [Table of data](#)
- [Tab-separated data](#)
- [Graph of data](#)
- [Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1955-04-20		D	72019	335.10			1	Z			A

Explanation

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

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 [U.S. Geological Survey](#)

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

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



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

Page Last Modified: 2022-10-13 16:27:07 EDT

0.27 0.23 nadww01



National Water Information System: Web Interface

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Data Category:  Geographic Area:

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

**Search Results -- 1 sites found**

**Agency code** = usgs

**site\_no list** =  
 • 323541103395501

**Minimum number of levels** = 1

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

**USGS 323541103395501 20S.33E.04.43211**

Lea County, New Mexico

Latitude 32°35'41", Longitude 103°39'55" NAD27

Land-surface elevation 3,553 feet above NAVD88

The depth of the well is 58 feet below land surface.

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

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

**Output formats**

- [Table of data](#)
- [Tab-separated data](#)
- [Graph of data](#)
- [Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1965-11-17			D 72019	34.91			P	Z			A
1968-03-19			D 72019	33.19			1	Z			A

Explanation

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

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

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



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Page Last Modified: 2022-10-13 16:28:21 EDT

0.32 0.25 nadww01

## **Appendix B Field Data**



# Appendix C

## Laboratory Analytical Reports



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

August 08, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SMITH RANCH FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 07/29/22 14:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: SMITH RANCH FEDERAL  
Project Number: 16372  
Project Manager: JOEL LOWRY  
Fax To:

Reported:  
08-Aug-22 16:18

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NH 1 @ SURFACE	H223366-01	Soil	29-Jul-22 00:00	29-Jul-22 14:44
NH 1 @ 1'	H223366-02	Soil	29-Jul-22 00:00	29-Jul-22 14:44
EH 1 @ SURFACE	H223366-03	Soil	29-Jul-22 00:00	29-Jul-22 14:44
EH 1 @ 1'	H223366-04	Soil	29-Jul-22 00:00	29-Jul-22 14:44
EH 2 @ SURFACE	H223366-05	Soil	29-Jul-22 00:00	29-Jul-22 14:44
EH 2 @ 1'	H223366-06	Soil	29-Jul-22 00:00	29-Jul-22 14:44
SH 1 @ SURFACE	H223366-07	Soil	29-Jul-22 00:00	29-Jul-22 14:44
SH 1 @ 1'	H223366-08	Soil	29-Jul-22 00:00	29-Jul-22 14:44
WH 1 @ SURFACE	H223366-09	Soil	29-Jul-22 00:00	29-Jul-22 14:44
WH 1 @ 1'	H223366-10	Soil	29-Jul-22 00:00	29-Jul-22 14:44
WH 2 @ SURFACE	H223366-11	Soil	29-Jul-22 00:00	29-Jul-22 14:44
WH 2 @ 1'	H223366-12	Soil	29-Jul-22 00:00	29-Jul-22 14:44
V 1 @ SURFACE	H223366-13	Soil	29-Jul-22 00:00	29-Jul-22 14:44
V 1 @ 4'	H223366-14	Soil	29-Jul-22 00:00	29-Jul-22 14:44
V 2 @ SURFACE	H223366-15	Soil	29-Jul-22 00:00	29-Jul-22 14:44
V 2 @ 3'	H223366-16	Soil	29-Jul-22 00:00	29-Jul-22 14:44
V 3 @ SURFACE	H223366-17	Soil	29-Jul-22 00:00	29-Jul-22 14:44
V 3 @ 1.5' - R	H223366-18	Soil	29-Jul-22 00:00	29-Jul-22 14:44
V 1 @ 7' - R	H223366-19	Soil	29-Jul-22 00:00	29-Jul-22 14:44

08/08/22 - Client changed the sample ID of -16 (see COC). This is the revised report and will replace the one sent on 08/04/22.

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: SMITH RANCH FEDERAL  
Project Number: 16372  
Project Manager: JOEL LOWRY  
Fax To:

Reported:  
08-Aug-22 16:18

**NH 1 @ SURFACE**  
**H223366-01 (Soil)**

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

**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	02-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	02-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	02-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	02-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	02-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %		69.9-140	2080127	JH	02-Aug-22	8021B	
---------------------------------------	--	--	-------	--	----------	---------	----	-----------	-------	--

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080114	MS	02-Aug-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>100</b>		10.0	mg/kg	1	2080114	MS	02-Aug-22	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>85.8</b>		10.0	mg/kg	1	2080114	MS	02-Aug-22	8015B	

Surrogate: 1-Chlorooctane			73.9 %		43-149	2080114	MS	02-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			92.7 %		42.5-161	2080114	MS	02-Aug-22	8015B	
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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  
2617 W MARLAND  
HOBBS NM, 88240

Project: SMITH RANCH FEDERAL  
Project Number: 16372  
Project Manager: JOEL LOWRY  
Fax To:

Reported:  
08-Aug-22 16:18

**NH 1 @ 1'**  
**H223366-02 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	03-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			116 %	69.9-140		2080127	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	

Surrogate: 1-Chlorooctane			82.0 %	43-149		2080114	MS	03-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			94.0 %	42.5-161		2080114	MS	03-Aug-22	8015B	
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Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: SMITH RANCH FEDERAL  
Project Number: 16372  
Project Manager: JOEL LOWRY  
Fax To:

Reported:  
08-Aug-22 16:18

**EH 1 @ SURFACE****H223366-03 (Soil)**

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

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	03-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %		69.9-140	2080127	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>49.2</b>		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>25.7</b>		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.4 %		43-149	2080114	MS	03-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.6 %		42.5-161	2080114	MS	03-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: SMITH RANCH FEDERAL  
Project Number: 16372  
Project Manager: JOEL LOWRY  
Fax To:

Reported:  
08-Aug-22 16:18

**EH 1 @ 1'**  
**H223366-04 (Soil)**

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

<b>Chloride</b>	<b>176</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	03-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			115 %	69.9-140		2080127	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>19.9</b>		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			75.4 %	43-149		2080114	MS	03-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.3 %	42.5-161		2080114	MS	03-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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**EH 2 @ SURFACE  
H223366-05 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	03-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			116 %		69.9-140	2080127	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>12.7</b>		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.6 %		43-149	2080114	MS	03-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.2 %		42.5-161	2080114	MS	03-Aug-22	8015B	
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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  
2617 W MARLAND  
HOBBS NM, 88240

Project: SMITH RANCH FEDERAL  
Project Number: 16372  
Project Manager: JOEL LOWRY  
Fax To:

Reported:  
08-Aug-22 16:18

**EH 2 @ 1'**  
**H223366-06 (Soil)**

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

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	03-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			116 %	69.9-140		2080127	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>11.9</b>		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			66.6 %	43-149		2080114	MS	03-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			76.7 %	42.5-161		2080114	MS	03-Aug-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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**SH 1 @ SURFACE  
H223366-07 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	03-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			116 %		69.9-140	2080127	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>19.6</b>		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			70.4 %		43-149	2080114	MS	03-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.6 %		42.5-161	2080114	MS	03-Aug-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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**SH 1 @ 1'  
H223366-08 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	03-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			116 %		69.9-140	2080127	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			69.2 %		43-149	2080114	MS	03-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.2 %		42.5-161	2080114	MS	03-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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**WH 1 @ SURFACE**

**H223366-09 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	03-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			116 %	69.9-140		2080127	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>35.6</b>		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			72.2 %	43-149		2080114	MS	03-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			83.4 %	42.5-161		2080114	MS	03-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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**WH 1 @ 1'  
H223366-10 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	03-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			116 %		69.9-140	2080127	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2080114	MS	03-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			70.3 %		43-149	2080114	MS	03-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.0 %		42.5-161	2080114	MS	03-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: SMITH RANCH FEDERAL  
Project Number: 16372  
Project Manager: JOEL LOWRY  
Fax To:

Reported:  
08-Aug-22 16:18

**WH 2 @ SURFACE****H223366-11 (Soil)**

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

Chloride	160		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	03-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	69.9-140		2080127	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080115	MS	02-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2080115	MS	02-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2080115	MS	02-Aug-22	8015B	

Surrogate: 1-Chlorooctane			61.4 %	43-149		2080115	MS	02-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			66.2 %	42.5-161		2080115	MS	02-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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**WH 2 @ 1'  
H223366-12 (Soil)**

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

**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	03-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		69.9-140	2080127	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080115	MS	02-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2080115	MS	02-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2080115	MS	02-Aug-22	8015B	

Surrogate: 1-Chlorooctane			52.9 %		43-149	2080115	MS	02-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			54.9 %		42.5-161	2080115	MS	02-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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**V 1 @ SURFACE  
H223366-13 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	03-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %	69.9-140		2080127	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	2080115	MS	02-Aug-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>20100</b>		50.0	mg/kg	5	2080115	MS	02-Aug-22	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>5280</b>		50.0	mg/kg	5	2080115	MS	02-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.5 %	43-149		2080115	MS	02-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			843 %	42.5-161		2080115	MS	02-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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**V 1 @ 4'**  
**H223366-14 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080127	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080127	JH	03-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %	69.9-140		2080127	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>10.9</b>		10.0	mg/kg	1	2080115	MS	03-Aug-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>999</b>		10.0	mg/kg	1	2080115	MS	03-Aug-22	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>242</b>		10.0	mg/kg	1	2080115	MS	03-Aug-22	8015B	

Surrogate: 1-Chlorooctane			85.1 %	43-149		2080115	MS	03-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			159 %	42.5-161		2080115	MS	03-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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**V 2 @ SURFACE  
H223366-15 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
<b>Toluene*</b>	<b>0.050</b>		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080128	JH	03-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %		69.9-140	2080128	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	2080115	MS	02-Aug-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>16700</b>		50.0	mg/kg	5	2080115	MS	02-Aug-22	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>4240</b>		50.0	mg/kg	5	2080115	MS	02-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.4 %		43-149	2080115	MS	02-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			738 %		42.5-161	2080115	MS	02-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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V 2 @ 3'  
H223366-16 (Soil)

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

**Inorganic Compounds**

Chloride	208		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080128	JH	03-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	69.9-140		2080128	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080115	MS	02-Aug-22	8015B	
DRO >C10-C28*	91.8		10.0	mg/kg	1	2080115	MS	02-Aug-22	8015B	
EXT DRO >C28-C36	16.8		10.0	mg/kg	1	2080115	MS	02-Aug-22	8015B	

Surrogate: 1-Chlorooctane			73.9 %	43-149		2080115	MS	02-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			87.2 %	42.5-161		2080115	MS	02-Aug-22	8015B	
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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**V 3 @ SURFACE  
H223366-17 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080128	JH	03-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	69.9-140		2080128	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

GRO C6-C10*	<100		100	mg/kg	10	2080115	MS	02-Aug-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>30000</b>		100	mg/kg	10	2080115	MS	02-Aug-22	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>7290</b>		100	mg/kg	10	2080115	MS	02-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			70.7 %	43-149		2080115	MS	02-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			1140 %	42.5-161		2080115	MS	02-Aug-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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**V 3 @ 1.5' - R  
H223366-18 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

Benzene*	<0.050		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
<b>Toluene*</b>	<b>0.519</b>		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
<b>Ethylbenzene*</b>	<b>1.18</b>		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
<b>Total Xylenes*</b>	<b>3.61</b>		0.150	mg/kg	50	2080128	JH	03-Aug-22	8021B	
<b>Total BTEX</b>	<b>5.30</b>		0.300	mg/kg	50	2080128	JH	03-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			176 %	69.9-140		2080128	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>160</b>		100	mg/kg	10	2080222	MS	03-Aug-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>20900</b>		100	mg/kg	10	2080222	MS	03-Aug-22	8015B	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>4640</b>		100	mg/kg	10	2080222	MS	03-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			152 %	43-149		2080222	MS	03-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			984 %	42.5-161		2080222	MS	03-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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**V 1 @ 7' - R  
H223366-19 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>320</b>		16.0	mg/kg	4	2080235	AC	02-Aug-22	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2080128	JH	03-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2080128	JH	03-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			115 %		69.9-140	2080128	JH	03-Aug-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2080116	MS	02-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2080116	MS	02-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2080116	MS	02-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.6 %		43-149	2080116	MS	02-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.2 %		42.5-161	2080116	MS	02-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SMITH RANCH FEDERAL Project Number: 16372 Project Manager: JOEL LOWRY Fax To:	Reported: 08-Aug-22 16:18
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2080235 - 1:4 DI Water</b>										
<b>Blank (2080235-BLK1)</b>										
Prepared & Analyzed: 02-Aug-22										
Chloride	ND	16.0	mg/kg							
<b>LCS (2080235-BS1)</b>										
Prepared & Analyzed: 02-Aug-22										
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (2080235-BSD1)</b>										
Prepared & Analyzed: 02-Aug-22										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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**Analytical Results For:**

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

Project: SMITH RANCH FEDERAL  
Project Number: 16372  
Project Manager: JOEL LOWRY  
Fax To:

Reported:  
08-Aug-22 16:18

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2080127 - Volatiles****Blank (2080127-BLK1)**

Prepared: 01-Aug-22 Analyzed: 02-Aug-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0571		mg/kg	0.0500		114	69.9-140			

**LCS (2080127-BS1)**

Prepared: 01-Aug-22 Analyzed: 02-Aug-22

Benzene	1.92	0.050	mg/kg	2.00		96.0	83.4-122			
Toluene	2.01	0.050	mg/kg	2.00		100	84.2-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	84.2-121			
m,p-Xylene	4.12	0.100	mg/kg	4.00		103	89.9-126			
o-Xylene	1.98	0.050	mg/kg	2.00		99.0	84.3-123			
Total Xylenes	6.10	0.150	mg/kg	6.00		102	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0559		mg/kg	0.0500		112	69.9-140			

**LCS Dup (2080127-BSD1)**

Prepared: 01-Aug-22 Analyzed: 02-Aug-22

Benzene	2.12	0.050	mg/kg	2.00		106	83.4-122	9.82	12.6	
Toluene	2.21	0.050	mg/kg	2.00		110	84.2-126	9.43	13.3	
Ethylbenzene	2.20	0.050	mg/kg	2.00		110	84.2-121	9.37	13.9	
m,p-Xylene	4.51	0.100	mg/kg	4.00		113	89.9-126	9.08	13.6	
o-Xylene	2.15	0.050	mg/kg	2.00		108	84.3-123	8.30	14.1	
Total Xylenes	6.67	0.150	mg/kg	6.00		111	89.1-124	8.83	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0559		mg/kg	0.0500		112	69.9-140			

**Batch 2080128 - Volatiles****Blank (2080128-BLK1)**

Prepared: 01-Aug-22 Analyzed: 03-Aug-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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**Analytical Results For:**

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

Project: SMITH RANCH FEDERAL  
Project Number: 16372  
Project Manager: JOEL LOWRY  
Fax To:

Reported:  
08-Aug-22 16:18

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2080128 - Volatiles****Blank (2080128-BLK1)**

Prepared: 01-Aug-22 Analyzed: 03-Aug-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0575		mg/kg	0.0500		115	69.9-140			

**LCS (2080128-BS1)**

Prepared: 01-Aug-22 Analyzed: 03-Aug-22

Benzene	2.01	0.050	mg/kg	2.00		100	83.4-122			
Toluene	2.11	0.050	mg/kg	2.00		106	84.2-126			
Ethylbenzene	2.11	0.050	mg/kg	2.00		106	84.2-121			
m,p-Xylene	4.36	0.100	mg/kg	4.00		109	89.9-126			
o-Xylene	2.10	0.050	mg/kg	2.00		105	84.3-123			
Total Xylenes	6.46	0.150	mg/kg	6.00		108	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0561		mg/kg	0.0500		112	69.9-140			

**LCS Dup (2080128-BSD1)**

Prepared: 01-Aug-22 Analyzed: 03-Aug-22

Benzene	1.87	0.050	mg/kg	2.00		93.6	83.4-122	7.00	12.6	
Toluene	1.97	0.050	mg/kg	2.00		98.5	84.2-126	6.91	13.3	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.5	84.2-121	7.02	13.9	
m,p-Xylene	4.05	0.100	mg/kg	4.00		101	89.9-126	7.40	13.6	
o-Xylene	1.94	0.050	mg/kg	2.00		97.1	84.3-123	8.02	14.1	
Total Xylenes	5.99	0.150	mg/kg	6.00		99.8	89.1-124	7.60	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0554		mg/kg	0.0500		111	69.9-140			

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**Analytical Results For:**

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

Project: SMITH RANCH FEDERAL  
Project Number: 16372  
Project Manager: JOEL LOWRY  
Fax To:

Reported:  
08-Aug-22 16:18

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2080114 - General Prep - Organics****Blank (2080114-BLK1)**

Prepared: 01-Aug-22 Analyzed: 02-Aug-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0		94.1	43-149			
Surrogate: 1-Chlorooctadecane	54.2		mg/kg	50.0		108	42.5-161			

**LCS (2080114-BS1)**

Prepared: 01-Aug-22 Analyzed: 02-Aug-22

GRO C6-C10	211	10.0	mg/kg	200		106	78.5-128			
DRO >C10-C28	221	10.0	mg/kg	200		111	75.8-135			
Total TPH C6-C28	432	10.0	mg/kg	400		108	81.5-127			
Surrogate: 1-Chlorooctane	48.2		mg/kg	50.0		96.5	43-149			
Surrogate: 1-Chlorooctadecane	58.5		mg/kg	50.0		117	42.5-161			

**LCS Dup (2080114-BSD1)**

Prepared: 01-Aug-22 Analyzed: 02-Aug-22

GRO C6-C10	218	10.0	mg/kg	200		109	78.5-128	3.29	21.4	
DRO >C10-C28	228	10.0	mg/kg	200		114	75.8-135	3.14	17.9	
Total TPH C6-C28	446	10.0	mg/kg	400		112	81.5-127	3.21	17.6	
Surrogate: 1-Chlorooctane	51.7		mg/kg	50.0		103	43-149			
Surrogate: 1-Chlorooctadecane	62.1		mg/kg	50.0		124	42.5-161			

**Batch 2080115 - General Prep - Organics****Blank (2080115-BLK1)**

Prepared: 01-Aug-22 Analyzed: 02-Aug-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	39.5		mg/kg	50.0		78.9	43-149			
Surrogate: 1-Chlorooctadecane	39.5		mg/kg	50.0		79.0	42.5-161			

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**Analytical Results For:**

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

Project: SMITH RANCH FEDERAL  
Project Number: 16372  
Project Manager: JOEL LOWRY  
Fax To:

Reported:  
08-Aug-22 16:18

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2080115 - General Prep - Organics****LCS (2080115-BS1)**

Prepared: 01-Aug-22 Analyzed: 02-Aug-22

GRO C6-C10	183	10.0	mg/kg	200		91.5	78.5-128			
DRO >C10-C28	191	10.0	mg/kg	200		95.3	75.8-135			
Total TPH C6-C28	374	10.0	mg/kg	400		93.4	81.5-127			
Surrogate: 1-Chlorooctane	45.3		mg/kg	50.0		90.7	43-149			
Surrogate: 1-Chlorooctadecane	46.7		mg/kg	50.0		93.4	42.5-161			

**LCS Dup (2080115-BSD1)**

Prepared: 01-Aug-22 Analyzed: 02-Aug-22

GRO C6-C10	194	10.0	mg/kg	200		96.9	78.5-128	5.68	21.4	
DRO >C10-C28	200	10.0	mg/kg	200		99.8	75.8-135	4.66	17.9	
Total TPH C6-C28	393	10.0	mg/kg	400		98.3	81.5-127	5.16	17.6	
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.5	43-149			
Surrogate: 1-Chlorooctadecane	47.3		mg/kg	50.0		94.7	42.5-161			

**Batch 2080116 - General Prep - Organics****Blank (2080116-BLK1)**

Prepared: 01-Aug-22 Analyzed: 02-Aug-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.1		mg/kg	50.0		100	43-149			
Surrogate: 1-Chlorooctadecane	51.0		mg/kg	50.0		102	42.5-161			

**LCS (2080116-BS1)**

Prepared: 01-Aug-22 Analyzed: 02-Aug-22

GRO C6-C10	217	10.0	mg/kg	200		108	78.5-128			
DRO >C10-C28	197	10.0	mg/kg	200		98.4	75.8-135			
Total TPH C6-C28	413	10.0	mg/kg	400		103	81.5-127			
Surrogate: 1-Chlorooctane	57.5		mg/kg	50.0		115	43-149			
Surrogate: 1-Chlorooctadecane	58.9		mg/kg	50.0		118	42.5-161			

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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  
2617 W MARLAND  
HOBBS NM, 88240

Project: SMITH RANCH FEDERAL  
Project Number: 16372  
Project Manager: JOEL LOWRY  
Fax To:

Reported:  
08-Aug-22 16:18

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2080116 - General Prep - Organics****LCS Dup (2080116-BSD1)**

Prepared: 01-Aug-22 Analyzed: 02-Aug-22

GRO C6-C10	219	10.0	mg/kg	200	109	78.5-128	1.08	21.4		
DRO >C10-C28	202	10.0	mg/kg	200	101	75.8-135	2.62	17.9		
Total TPH C6-C28	421	10.0	mg/kg	400	105	81.5-127	1.82	17.6		
Surrogate: 1-Chlorooctane	60.4		mg/kg	50.0	121	43-149				
Surrogate: 1-Chlorooctadecane	60.0		mg/kg	50.0	120	42.5-161				

**Batch 2080222 - General Prep - Organics****Blank (2080222-BLK1)**

Prepared &amp; Analyzed: 02-Aug-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.6		mg/kg	50.0	105	43-149				
Surrogate: 1-Chlorooctadecane	59.7		mg/kg	50.0	119	42.5-161				

**LCS (2080222-BS1)**

Prepared &amp; Analyzed: 02-Aug-22

GRO C6-C10	234	10.0	mg/kg	200	117	78.5-128				
DRO >C10-C28	243	10.0	mg/kg	200	122	75.8-135				
Total TPH C6-C28	478	10.0	mg/kg	400	119	81.5-127				
Surrogate: 1-Chlorooctane	60.1		mg/kg	50.0	120	43-149				
Surrogate: 1-Chlorooctadecane	70.2		mg/kg	50.0	140	42.5-161				

**LCS Dup (2080222-BSD1)**

Prepared &amp; Analyzed: 02-Aug-22

GRO C6-C10	231	10.0	mg/kg	200	116	78.5-128	1.16	21.4		
DRO >C10-C28	237	10.0	mg/kg	200	119	75.8-135	2.53	17.9		
Total TPH C6-C28	469	10.0	mg/kg	400	117	81.5-127	1.85	17.6		
Surrogate: 1-Chlorooctane	61.6		mg/kg	50.0	123	43-149				
Surrogate: 1-Chlorooctadecane	72.1		mg/kg	50.0	144	42.5-161				

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/2

Company Name: <i>Etech Environmental</i>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																							
Project Manager: <i>Joel Lowry</i>		P.O. #:																									
Address: <i>2617 Marland</i>		Company: <i>COG</i>																									
City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>		Attn:																									
Phone #: <i>575-3181735</i> Fax #:		Address:																									
Project #: <i>16372</i> Project Owner: <i>COG</i>		City:																									
Project Name: <i>Smith Ranch Federal</i>		State: Zip:																									
Project Location: <i>Rural Lea Co, NM</i>		Phone #:																									
Sampler Name: <i>Miguel Ramirez</i>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.																									
		GRAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.			SAMPLING																	
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME															
<i>H223366</i>																											
<i>1 NHI @ surface</i>		<i>G</i>	<i>1</i>	<i>1</i>				<i>X</i>			<i>7/29/22</i>		<i>X</i>	<i>X</i>	<i>X</i>												
<i>2 NHI @ 1'</i>																											
<i>3 EHI @ surface</i>																											
<i>4 EHI @ 1'</i>																											
<i>5 EHA @ surface</i>																											
<i>6 EHA @ 1'</i>																											
<i>7 SHI @ surface</i>																											
<i>8 SHI @ 1'</i>																											
<i>9 WHI @ surface</i>																											
<i>10 WHI @ 1'</i>																											

*Chlorides*  
*BTEX*  
*TPH*

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Relinquished By: <i>[Signature]</i>		Date: <i>7-29-22</i>		Received By: <i>[Signature]</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <i>7:44</i>				All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS:	
						<i>pm@etechnv.com</i>	
Delivered By: (Circle One)		Observed Temp. °C <i>4.9</i>		Sample Condition		Turnaround Time: <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <i>4.3</i>		<input type="checkbox"/> Cool <input type="checkbox"/> Intact		Bacteria (only) Sample Condition	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Cool <input type="checkbox"/> Intact	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C	
				CHECKED BY: <i>[Signature]</i>		Thermometer ID #113	
						Correction Factor -0.5°C	
						<i>7/29/22</i>	
						<input type="checkbox"/> Yes <input type="checkbox"/> No	
						<input type="checkbox"/> No <input type="checkbox"/> No	
						Corrected Temp. °C	

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

2/2

Company Name: <u>Etech Environmental</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																					
Project Manager: <u>Joe Lewry</u>		P.O. #:																							
Address: <u>2617 Marland</u>		Company: <u>COG</u>																							
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:																							
Phone #: <u>575.318.1735</u> Fax #:		Address:																							
Project #: <u>16372</u> Project Owner: <u>COG</u>		City:																							
Project Name: <u>Smith Ranch Federal</u>		State: Zip:																							
Project Location: <u>Rural Leaco, NM</u>		Phone #:																							
Sampler Name: <u>Margie Perry</u>		Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(GIRAB OR (C)OMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
<u>H22336</u>																									
<u>11</u>	<u>WH2 @ surface</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>7/29/22</u>		<u>Chlorides</u>	<u>BTEX</u>	<u>TPH</u>									
<u>12</u>	<u>WH2 @ 1'</u>																								
<u>13</u>	<u>V1 @ surface</u>																								
<u>14</u>	<u>V1 @ 4'</u>																								
<u>15</u>	<u>V2 @ surface</u>																								
<u>16</u>	<u>V2 @ 3' * chg 8/22</u>																								
<u>17</u>	<u>V3 @ surface</u>																								
<u>18</u>	<u>V3 @ 1.5'R</u>																								
<u>19</u>	<u>V1 @ 7'-R</u>																								
<u>20</u>																									

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Relinquished By: <u>[Signature]</u>	Date: <u>7-29-22</u>	Received By: <u>Laura S. Dabke</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Time: <u>1444</u>	Received By:	All Results are emailed. Please provide Email address:
	Date:		<u>* Sample ID revised as per Kathy. chg 8/2/22</u>
	Time:		REMARKS:
			<u>pm@etechen.v.com</u>
Delivered By: (Circle One)	Observed Temp. °C <u>4.9</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>4.3</u>	CHECKED BY: (Initials) <u>TO-</u>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 Correction Factor -0.5°C <input type="checkbox"/> Yes <input type="checkbox"/> No
			<u>TO. 7/29/22</u>
			<input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

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September 14, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SMITH RANCH FEDERAL 2-11

Enclosed are the results of analyses for samples received by the laboratory on 09/13/22 10:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 1 @ 5' (H224201-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/13/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	208	104	200	0.294	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	224	112	200	0.977	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 2 @ 3' (H224201-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/13/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	208	104	200	0.294	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	224	112	200	0.977	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 3 @ 3' (H224201-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/13/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	208	104	200	0.294	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	224	112	200	0.977	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 4 @ 3' (H224201-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/13/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	208	104	200	0.294	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	224	112	200	0.977	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 5 @ 3' (H224201-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/13/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	208	104	200	0.294	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	224	112	200	0.977	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 6 @ 3' (H224201-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/13/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	208	104	200	0.294	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	224	112	200	0.977	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 7 @ 3' (H224201-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/13/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	208	104	200	0.294	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	224	112	200	0.977	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 8 @ 3' (H224201-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/13/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	208	104	200	0.294	
<b>DRO &gt;C10-C28*</b>	<b>118</b>	10.0	09/13/2022	ND	224	112	200	0.977	
<b>EXT DRO &gt;C28-C36</b>	<b>33.8</b>	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 129 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 9 @ 3' (H224201-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/13/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2720</b>	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	208	104	200	0.294	
<b>DRO &gt;C10-C28*</b>	<b>20.8</b>	10.0	09/13/2022	ND	224	112	200	0.977	
<b>EXT DRO &gt;C28-C36</b>	<b>11.6</b>	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 10 @ 3' (H224201-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/13/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	208	104	200	0.294	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	224	112	200	0.977	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 95.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 11 @ 4' (H224201-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/13/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2400</b>	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	208	104	200	0.294	
<b>DRO &gt;C10-C28*</b>	<b>19.5</b>	10.0	09/13/2022	ND	224	112	200	0.977	
<b>EXT DRO &gt;C28-C36</b>	<b>10.5</b>	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 12 @ 4' (H224201-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/13/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	208	104	200	0.294	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	224	112	200	0.977	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 95.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 13 @ 4' (H224201-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/14/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/14/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	208	104	200	0.294	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	224	112	200	0.977	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: NW 1 (H224201-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/14/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/14/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	208	104	200	0.294	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	224	112	200	0.977	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 122 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: NW 2 (H224201-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/14/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/14/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	09/13/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	208	104	200	0.294	
<b>DRO &gt;C10-C28*</b>	<b>74.1</b>	10.0	09/14/2022	ND	224	112	200	0.977	
<b>EXT DRO &gt;C28-C36</b>	<b>17.9</b>	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: NW 3 (H224201-16)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/14/2022	ND	1.99	99.5	2.00	11.1		
Toluene*	<0.050	0.050	09/14/2022	ND	1.94	97.2	2.00	8.37		
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	1.92	96.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/14/2022	ND	5.95	99.2	6.00	8.16		
Total BTEX	<0.300	0.300	09/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>128</b>	16.0	09/13/2022	ND	416	104	400	3.92	QR-03	

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	208	104	200	0.294		
<b>DRO &gt;C10-C28*</b>	<b>28.7</b>	10.0	09/14/2022	ND	224	112	200	0.977		
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND						

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: NW 4 (H224201-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/14/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/13/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	208	104	200	0.294	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	224	112	200	0.977	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: SW 1 (H224201-18)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/14/2022	ND	1.99	99.5	2.00	11.1		
Toluene*	<0.050	0.050	09/14/2022	ND	1.94	97.2	2.00	8.37		
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	1.92	96.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/14/2022	ND	5.95	99.2	6.00	8.16		
Total BTEX	<0.300	0.300	09/14/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	09/13/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	208	104	200	0.294		
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	224	112	200	0.977		
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND						

Surrogate: 1-Chlorooctane 93.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: SW 2 (H224201-19)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	1.99	99.5	2.00	11.1	
Toluene*	<0.050	0.050	09/14/2022	ND	1.94	97.2	2.00	8.37	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	1.92	96.2	2.00	8.33	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	5.95	99.2	6.00	8.16	
Total BTEX	<0.300	0.300	09/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	09/13/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	208	104	200	0.294	
<b>DRO &gt;C10-C28*</b>	<b>39.4</b>	10.0	09/14/2022	ND	224	112	200	0.977	
<b>EXT DRO &gt;C28-C36</b>	<b>31.0</b>	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: SW 3 (H224201-20)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/14/2022	ND	1.99	99.5	2.00	11.1		
Toluene*	<0.050	0.050	09/14/2022	ND	1.94	97.2	2.00	8.37		
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	1.92	96.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/14/2022	ND	5.95	99.2	6.00	8.16		
Total BTEX	<0.300	0.300	09/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>384</b>	16.0	09/13/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	208	104	200	0.294		
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	224	112	200	0.977		
<b>EXT DRO &gt;C28-C36</b>	<b>10.1</b>	10.0	09/14/2022	ND						

Surrogate: 1-Chlorooctane 92.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: EW 1 (H224201-21)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	5.27	
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01	
Total BTEX	<0.300	0.300	09/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	09/13/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	228	114	200	1.48	
<b>DRO &gt;C10-C28*</b>	<b>11.2</b>	10.0	09/13/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.2 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: EW 2 (H224201-22)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	5.27	
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01	
Total BTEX	<0.300	0.300	09/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	09/13/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.9 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: EW 3 (H224201-23)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	5.27	
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01	
Total BTEX	<0.300	0.300	09/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/13/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.9 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: WW 1 (H224201-24)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	5.27	
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01	
Total BTEX	<0.300	0.300	09/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>496</b>	16.0	09/13/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	228	114	200	1.48	
<b>DRO &gt;C10-C28*</b>	<b>64.6</b>	10.0	09/13/2022	ND	241	121	200	5.39	
<b>EXT DRO &gt;C28-C36</b>	<b>15.0</b>	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 99.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: WW 2 (H224201-25)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	5.27	
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/13/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: WW 3 (H224201-26)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	5.27	
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01	
Total BTEX	<0.300	0.300	09/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/13/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.6 % 46.3-178

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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  
 KATHY PURVIS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/13/2022	Sampling Date:	09/12/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: WW 4 (H224201-27)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	5.27		
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01		
Total BTEX	<0.300	0.300	09/13/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/13/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48		
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39		
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND						

Surrogate: 1-Chlorooctane 97.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: Etech Environmental & Safety Solutions		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>									
Project Manager: Kathy Purvis		P.O. #:		Chloride TPH (8015M) BTEX (8021B)									
Address: 2617 West Marland		Company: COP											
City: Hobbs State: NM Zip: 88240		Attn: Charles Beavins											
Phone #: (575) 264-9884 Fax #:		Address:											
Project #: 16372 Project Owner: COP		City:											
Project Name: Smith Ranch Fed 2-11		State: Zip:											
Project Location: Rural Coa		Phone #:											
Sampler Name: Dominic Casarez		Fax #:											

FOR LAB USE ONLY		(GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
H224201																
11	FL11e4	C1			✓				✓			9/12/22		X	X	X
12	FL12e4															
13	FL13e4															
14	NW1															
15	NW2															
16	NW3															
17	NW4															
18	SW1															
19	SW2															
20	SW3															

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Relinquished By: <i>[Signature]</i>	Date: 9/12/22	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:	
	Time: 5:00pm		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:	
Relinquished By: <i>[Signature]</i>	Date: 9-13-22	Received By: <i>[Signature]</i>	REMARKS: email results		
	Time: 10:10		Push!		
Delivered By: (Circle One)		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>			CHECKED BY: (Initials) <i>[Initials]</i>
Sampler - UPS - Bus - Other: -9.4c/-10.0c		<input type="checkbox"/> Yes <input type="checkbox"/> No			

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



# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name: Etech Environmental & Safety Solutions		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																																																																								
Project Manager: Kathy Purvis		P.O. #:		<table border="1"> <tr><td>Chloride</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>TPH (8015M)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>BTEX (8021B)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>										Chloride																					TPH (8015M)																					BTEX (8021B)																				
Chloride																																																																												
TPH (8015M)																																																																												
BTEX (8021B)																																																																												
Address: 2617 West Marland		Company: COP																																																																										
City: Hobbs State: NM Zip: 88240		Attn: <i>Charles Bourgeois</i>																																																																										
Phone #: (575) 264-9884 Fax #:		Address:																																																																										
Project #: <i>16372</i> Project Owner: COP		City:																																																																										
Project Name: <i>Smith Ranch 2-11</i>		State: Zip:																																																																										
Project Location: <i>Kernal Lea</i>		Phone #:																																																																										
Sampler Name: <i>Norman Casarez</i>		Fax #:																																																																										

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)			
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:									
<i>H224201</i>																				
<i>21</i>	<i>EW 1</i>	<i>C</i>			<i>✓</i>								<i>9/12/22</i>		<i>X</i>	<i>X</i>	<i>X</i>			
<i>22</i>	<i>EW 2</i>	<i>C</i>																		
<i>23</i>	<i>EW 3</i>	<i>C</i>																		
<i>24</i>	<i>WW 1</i>	<i>C</i>																		
<i>25</i>	<i>WW 2</i>	<i>C</i>																		
<i>26</i>	<i>WW 3</i>	<i>C</i>																		
<i>27</i>	<i>WW 4</i>	<i>C</i>																		

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Relinquished By: <i>[Signature]</i>	Date: <i>9/12/22</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: <i>9-13-22</i>	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>-9.4°C/10.0°C</i>	Time: <i>10:10</i>	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	REMARKS: <i>email results</i> <i>Rush!</i>	
		CHECKED BY: (Initials) <i>TO</i>		

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

---

September 16, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SMITH RANCH FEDERAL 2-11

Enclosed are the results of analyses for samples received by the laboratory on 09/15/22 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/16/2022	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL 2-11	Sampling Condition:	Cool & Intact
Project Number:	16372	Sample Received By:	Tamara Oldaker
Project Location:	COP - RURAL LEA CO., NM		

**Sample ID: FL 8 @ 4' (H224261-01)**

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
<i>Surrogate: 1-Chlorooctane</i>		<i>77.2 %</i>	<i>45.3-161</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>80.5 %</i>	<i>46.3-178</i>						

**Sample ID: FL 9 @ 4' (H224261-02)**

Chloride, SM4500CI-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	09/16/2022	ND	416	104	400	0.00	

**Sample ID: FL 11 @ 5' (H224261-03)**

Chloride, SM4500CI-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	09/16/2022	ND	416	104	400	3.77	

**Sample ID: EW 2 B (H224261-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	09/16/2022	ND	416	104	400	3.77	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

7 of 1

Page 4 of 4

Company Name: Etech Environmental & Safety Solutions				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager:				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																					
Address: 2617 West Marland				Company: COP																									
City: Hobbs State: NM Zip: 88240				Attn: Charles Beavers																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 16372 Project Owner:				City:																									
Project Name: Smith Ranch Fed 211				State: Zip:																									
Project Location: Rural Lea				Phone #:																									
Sampler Name: Dominic Casarez				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX				PRESERV		SAMPLING																		
				(G)RAB OR (C)OMP.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE		TIME													
H224261							✓				✓			9/14/22															
1		FL8 @ 4'		COP			✓				✓			9/14/22				X	X										
2		FL9 @ 4'		COP			✓				✓			9/14/22				X											
3		FL11 @ 5'		COP			✓				✓			9/14/22				X											
4		EW2B		COP			✓				✓			9/14/22				X											

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Relinquished By: <i>[Signature]</i>		Date: 9/14/22		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: 5:45p				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>[Signature]</i>		Date: 9-15-22		Received By: <i>[Signature]</i>		REMARKS: email results <i>RUSH!</i>			
		Time: 0930							
Delivered By: (Circle One)		#113		Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other: 4.6c / 4.0c				Cool Intact		TO			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

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# **Appendix D**

## **Photographic Log**

### Photographic Log

<b>Photo Number:</b> 1	 <p>Jul 28, 2022 at 11:09:16 AM +32.592978,-103.635741 ±10.00m 99° E</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 2	 <p>Jul 28, 2022 at 11:09:36 AM +32.593052,-103.635824 ±5.00m 134° SE</p>
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the affected area.	

### Photographic Log

<b>Photo Number:</b> 3	
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b>  View of the affected area.	

### Photographic Log

<b>Photo Number:</b> 5	 <p>Sep 12, 2022 at 8:43:20 AM Hobbs NM 88240 United States</p> <p>32.593189 -103.635789</p>
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 6	 <p>Sep 12, 2022 at 8:43:34 AM Hobbs NM 88240 United States</p> <p>32.593189 -103.635789</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area.	

### Photographic Log

<b>Photo Number:</b> 7	 <p>Sep 12, 2022 at 8:44:48 AM Hobbs NM 88240 United States</p> <p>32.592836 -103.635703</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 8	 <p>Sep 14, 2022 at 1:12:12 PM Hobbs NM 88240 United States</p> <p>32.592814 -103.635719</p>
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the excavated area.	

### Photographic Log

<b>Photo Number:</b> 9	 <p>Sep 19, 2022 at 4:48:57 PM Hobbs NM 88240 United States</p> <p>32.592753, -103.635667</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 10	 <p>Sep 19, 2022 at 4:49:21 PM Hobbs NM 88240 United States</p> <p>32.592859, -103.635823</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

### Photographic Log

<b>Photo Number:</b> 11	 <p>Sep 19, 2022 at 4:49:37 PM Hobbs NM 88240 United States</p> <p>32.592761, -103.635765</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 12	 <p>Sep 19, 2022 at 4:50:50 PM Hobbs NM 88240 United States</p> <p>32.593127, -103.635741</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

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

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

CONDITIONS

Action 151363

**CONDITIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 151363
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	11/14/2022