


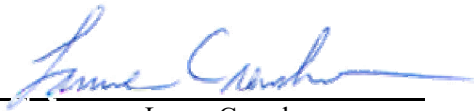
# Remediation Summary & Deferral Request

## Mewbourne Oil Company Red Hills West 21 Fed Com #2H SWD Line

Lea County, New Mexico  
Unit Letter "N", Section 16, Township 26 South, Range 32 East  
Latitude 32.0358340 North, Longitude 103.680419 West  
NMOCD Reference No. nAPP2120041782

Prepared By:

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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Deferral Request* for the release site known as the Red Hills West 21 Fed Com #2H SWD Line (henceforth, "Red Hills West 21"). Details of the release are summarized below:

### Location of Release Source

Latitude: 32.0358340 Longitude: -103.680419

Provided GPS are in WGS84 format.

Site Name: Red Hills West 21 Fed Com #2H SWD Line	Site Type: Pipeline
Date Release Discovered: 7/11/2021	API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
"N"	16	26S	32E	Lea

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

### Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 140	Volume Recovered (bbls) 70
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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:

A 3" poly Salt Water Disposal (SWD) line developed a leak.

### Initial Response

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

Previously submitted portions of the New Mexico Oil Conservation Division (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 Red Hills West 21 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?	210'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input 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 Red Hills West 21 release site are as follows:

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

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

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

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



## 4.0 INITIAL SITE ASSESSMENT

On March 3 and 4, 2022, Etech conducted an initial site assessment. During the site assessment, a series of soil bores and/or test trenches (SP1 through SP8) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, a series of hand-augered soil bores (NH1, EH1, EH2, EH3, EH4, EH5, SH1, WH1, WH2, WH3, WH4, and WH5) 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 soil bores/test trenches, soil samples were collected and field-screened for concentrations of chloride utilizing a Hach Quantab ® chloride test kit and/or the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses.

Based on field observations and field test data, a total of 40 delineation soil samples (NH1 @ Surface, NH1 @ 1', EH1 @ Surface, EH1 @ 1', EH2 @ Surface, EH2 @ 1', EH3 @ Surface, EH3 @ 1', EH4 @ Surface, EH4 @ 1', EH5 @ Surface, EH5 @ 1', SH1 @ Surface, SH1 @ 1', WH1 @ Surface, WH1 @ 1', WH2 @ Surface, WH2 @ 1', WH3 @ Surface, WH3 @ 1', WH4 @ Surface, WH4 @ 1', WH5 @ Surface, WH5 @ 1', SP1 @ Surface, SP1 @ 8', SP2 @ Surface, SP2 @ 14', SP3 @ Surface, SP3 @ 6', SP4 @ Surface, SP4 @ 4', SP5 @ Surface, SP5 @ 4', SP6 @ Surface, SP6 @ 8', SP7 @ Surface, SP7 @ 6', SP8 @ Surface, and SP8 @ 8') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal and vertical extent of impacted soil was adequately defined and ranged from approximately four (4) feet below ground surface (bgs) in the areas characterized by sample points SP4 and SP5 to eight (8) feet bgs in the areas characterized by sample points SP1, SP6, and SP8. Soil was not affected beyond ground surface in the area characterized by sample point SP2.

The locations of the hand-augered soil bores are depicted in Figure 3A, "Site & Sample Location Map (Pasture Excavations)".

## 5.0 REMEDIATION ACTIVITIES SUMMARY

On May 9, 2022, remediation activities commenced at the release site. Due to the size and nature of the release, the affected area was divided into three (3) sections: North Excavation, which is in the pasture north of the Red Hills West SWD; South Excavation, which is in the pasture south of the SWD; and the Pad, which includes portions of the production pad and encompasses the SWD facility itself. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated to the extent practicable 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 of the excavations were advanced to the extent practicable or until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. The excavations were advanced vertically to approximately four (4) feet bgs.

On May 11, 2022, Etech collected six (6) confirmation soil samples (NW 1A, SW 1B, SW 2B, SW 3B, WW 1E, and WW 2A) from the sidewalls of the South Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 32.0 mg/kg in soil sample WW 1E to 480 mg/kg in soil sample SW 2B.

On May 13, 2022, Etech collected nine (9) confirmation soil samples (NW 2C, NW 3B, EW 1B, EW 2B, EW 3A, SW 4A, SW 5A, WW 3B, and WW 4) from the sidewalls of the South Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil samples EW 3A and WW 3B to 208 mg/kg in soil sample SW 5A.

On May 17, 2022, Etech collected seven (7) confirmation soil samples (NW 4, EW 4, EW 5, EW 6A, WW 5, WW 6, and WW 7) from the sidewalls of the South Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample WW 6 to 144 mg/kg in soil sample NW 4.

On May 20, 2022, Etech collected seven (7) confirmation soil samples (NW 5A, EW 7B, EW 8B, SW 6A, SW 7A, WW 8B, and WW 9A) from the sidewalls of the South Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample SW 6A to 208 mg/kg in soil sample WW 9A.

On May 26, 2022, Etech collected 15 confirmation soil samples (NW 6, EW 9A, EW 10B, EW 11A, EW 12A, SW 8A, SW 9B, SW 10, SW 11C, WW 10, WW 11B, WW 12A, WW 13A, WW 14, and WW 15) from the sidewalls of the South Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples EW 10B and SW 8A to 528 mg/kg in soil sample WW 13A.

On May 27, 2022, Etech advanced a series of six (6) test trenches (DFS1 through DFS6) within the release margins in an effort to further characterize the affected soil in the Pad requiring deferral of remediation. During the advancement of the test trenches, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of VOCs utilizing olfactory/visual senses.

Based on field observations and field test data, a total of 37 deferral characterization soil samples (DFS 1 @ Surface through DFS 1 @ 9', DFS 2 @ Surface through DFS 2 @ 3', DFS 3 @ Surface through DFS 3 @ 4', DFS 4 @ Surface through DFS 4 @ 4', DFS 5 @ Surface through DFS 5 @ 14', and DFS 6 @ Surface through DFS 6 @ 22') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples, with the exceptions of soil samples DFS 2 @ Surface, DFS 4 @ Surface, and DFS 4 @ 1', which exhibited TPH concentrations ranging from 11.3 mg/kg (DFS 2 @ Surface) to 433 mg/kg (DFS 4 @ Surface). Chloride concentrations ranged from 32.0 mg/kg in soil sample DFS 2 @ 1' to 19,300 mg/kg in soil sample DFS 3 @ Surface. Based on laboratory analytical data, the extent of impacted soil was adequately defined and ranged from less than one (1) foot bgs in the area characterized by sample point DFS4 to approximately 16 feet bgs in the area characterized by sample point DFS6. Soil was not affected beyond ground surface in the area characterized by sample point DFS2.

On June 9, 2022, Etech collected four (4) confirmation soil samples (EW 13, EW 14, SW 12, and SW 13) from the sidewalls of the South Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample EW 14 to 32.0 mg/kg in soil samples EW 13 and SW 12.

On June 13, 2022, Etech collected nine (9) confirmation soil samples (EW 15A, EW 16A, EW 17B, EW 18A, WW 16B, WW 17B, WW 18B, WW 19B, and WW 20B) from the sidewalls of the North Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were

below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 16.0 mg/kg in soil sample EW 18A to 640 mg/kg in soil sample WW 18B, which exceeded the NMOCD Closure Criterion and Reclamation Standard. Based on these laboratory analytical results, the excavation was subsequently further advanced in the area characterized by soil sample WW 18B.

On June 16, 2022, Etech collected six (6) confirmation soil samples (NW 7, EW 19A, EW 20A, EW 21, WW 21, and WW 22B) from the sidewalls of the North Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 80.0 mg/kg in soil sample EW 21 to 240 mg/kg in soil sample WW 21.

Etech also advanced a hand-augered soil bore (OSS) to determine the extent of impacted soil in an area of the pasture adjacent to the North Excavation inferred to have been affected by a light overspray from the release. During the advancement of the hand-augered soil bore, soil samples were collected and field-screened for the presence of VOCs utilizing olfactory/visual senses and/or concentrations of chloride utilizing a chloride test kit. Based on field observations and field test data, two (2) delineation soil samples (OSS @ Surface and OSS @ 1') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations were 448 mg/kg in soil sample OSS @ Surface and 112 mg/kg in soil sample OSS @ 1'. Based on these laboratory analytical results, the extent of impacted soil was adequately defined and did not extend beyond ground surface.

On June 20, 2022, Etech collected one (1) confirmation soil sample (WW 18C) from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results the chloride concentration was 48.0 mg/kg and below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On June 22, 2022, Etech collected one (1) confirmation soil sample (WW 18C) from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 80.0 mg/kg in soil sample EW 21 to 240 mg/kg in soil sample WW 21.

On June 28, 2022, based on laboratory analytical results, field observations, and in-situ chloride migration modeling, Mewbourne submitted a *Remediation Summary, Variance & Deferral Request* to the NMOCD requesting approval to defer remediation of chloride-impacted soil affected above the NMOCD Closure Criteria remaining in-situ in the Pad until decommissioning and abandonment of the SWD facility. Permission was also requested to install 20-mil, string-reinforced liners on the floors of the North and South Excavations atop impacted soil affected above the NMOCD Closure Criteria. The requests were subsequently denied by the NMOCD, with mandates to (a) more clearly identify areas on the production pad requiring major reconstruction, as deferral of the entire pad was not permissible, and (b) perform a more thorough investigation to determine the concentrations of contaminants of concern at and below four (4) feet bgs to remain in-situ beneath the proposed liners.

On August 10, 2022, in accordance with the NMOCD, Etech advanced test trenches in the areas characterized by sample points SP1, SP2, SP3, SP4, SP7, and SP8 in an effort to further characterize the affected soil to remain in-situ beneath the proposed liners. The trenches were advanced in one (1) foot increments to total depths ranging from five (5) feet bgs (SP3 and SP7) to 13 feet bgs (SP2). During the advancement of the test trenches, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of VOCs utilizing olfactory/visual senses.

Based on field observations and field test data, a total of 25 delineation soil samples (SP 1 @ 5' through SP 1 @ 7', SP 2 @ 4' through SP 2 @ 13', SP 3 @ 4', SP 3 @ 5', SP 4 @ 4' through SP 4 @ 7', SP 7 @ 4', SP 7 @ 5', and SP 8 @ 4' through SP 8 @ 7') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH,

and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the laboratory MDL, with the exception of soil sample SP 2 @ 13', which exhibited a TPH concentration of 137 mg/kg. Chloride concentrations ranged from 32.0 mg/kg in soil sample DFS 2 @ 1' to 19,300 mg/kg in soil sample DFS 3 @ Surface. Based on laboratory analytical data, impacted soil to remain in-situ beneath the proposed liners was adequately characterized.

On September 2, 2022, Etech advanced a hand-augered soil bore in the area characterized by sample point SP6 in an effort to further characterize the affected soil to remain in-situ beneath the proposed liner in the South Excavation. The soil bore was advanced in two (2) foot increments to a total depth of six (6) feet bgs, and two (2) delineation soil samples (SP6 @ 4' and SP6 @ 6') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples, with the exception of soil sample SP6 @ 4', which exhibited a chloride concentration of 32.0 mg/kg. Based on laboratory analytical data, impacted soil to remain in-situ beneath the proposed liner in the South Excavation was adequately characterized.

On September 9, 2022, based on laboratory analytical results, field observations, and in-situ chloride migration modeling, Mewbourne submitted a *Remediation Summary, Variance & Deferral Request (Revised)* (henceforth, "Deferral Request") to the NMOCD requesting approval to defer remediation of chloride-impacted soil affected above the NMOCD Closure Criteria remaining in-situ in the area characterized by sample points DFS5 and DFS6 (henceforth, "Deferral Area") until decommissioning and abandonment of the SWD facility. Permission was also requested to install 20-mil, string-reinforced liners on the floors of the North and South Excavations atop impacted soil affected above the NMOCD Closure Criteria. The requests were subsequently approved by the NMOCD. For additional information, please reference the *Deferral Request*, which is available in the NMOCD Imaging System.

On September 27, 2022, upon receiving NMOCD approval of the *Deferral Request*, a 20-mil polyurethane liner was installed on the floors of the North and South Excavations atop impacted soil affected above the NMOCD Closure Criteria. The liners were sloped to facilitate shedding of moisture outside the footprints of the excavations and the maximum horizontal extents of in-situ impacted soil. During the installation of the liners, an approximately 6-inch layer of pad material was installed both above and below the liners in an effort to maintain their integrity during backfilling activities. These engineered controls are designed to inhibit the vertical migration of chloride contamination remaining in-situ.

On October 10, 2022, Etech commenced remediation of the affected area in the Pad. In accordance with the NMOCD-approved *Deferral Request*, 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 excavated area were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and 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 October 10, 2022, Etech collected 14 confirmation soil samples (PNW 2, PEW 1, PEW 2, PSW 1, and PF 1 @ 4' through PF 10 @ 4') from the sidewalls and floor of the Pad Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 48.0 mg/kg in soil sample PF 10 @ 4' to 2,680 mg/kg in soil sample PF 6 @ 4'. Chloride concentrations in soil samples PF 1 @ 4', PF 3 @ 4', PF 5 @ 4', PF 6 @ 4', and PF 7 @ 4' exceeded the NMOCD Closure Criterion and NMOCD Reclamation Standard. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples PF 1 @ 4', PF 3 @ 4', PF 5 @ 4', PF 6 @ 4', and PF 7 @ 4'.



On October 14, 2022, Etech collected six (6) confirmation soil samples (PNW 3, PEW 3, PEW 4, PWW 1, PWW 2, and PWW 3) from the sidewalls of the Pad Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil sample PWW 2 to 432 mg/kg in soil sample PWW 3.

On October 21, 2022, Etech collected 37 confirmation soil samples (PEW 5, PEW 6, and PF 11 @ 4' through PF 45) from the sidewalls and floor of the Pad Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL, with the exception of soil sample PF 38 @ 4', which exhibited a TPH concentration of 10.9 mg/kg. Chloride concentrations ranged from 48.0 mg/kg in soil samples PF 26 @ 4', PF 27 @ 4', and PF 35 @ 4' to 2,600 mg/kg in soil sample PF 40 @ 4'. Chloride concentrations in soil samples PF 12 @ 4', PF 13 @ 4', PF 14 @ 4', PF 16 @ 4', PF 20 @ 4', PF 33 @ 4', PF 36 @ 4', PF 37 @ 4', PF 38 @ 4', PF 40 @ 4', and PF 43 exceeded the NMOCD Closure Criterion and NMOCD Reclamation Standard. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples PF 12 @ 4', PF 13 @ 4', PF 14 @ 4', PF 16 @ 4', PF 20 @ 4', PF 33 @ 4', PF 36 @ 4', PF 37 @ 4', PF 38 @ 4', PF 40 @ 4', and PF 43.

On October 25, 2022, Etech collected 21 confirmation soil samples (PNW 3, PNW 4, PNW 5, PSW 2, PSW 3, PSW 4, PWW 4 through PWW 7, and PF 66 @ 0"-6" through PF 76 @ 0"-6") from the sidewalls and floor of the Pad Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples PSW 3, PSW 4, PWW 4, and PF 66 @ 0"-6" through PF 76 @ 0"-6" to 1,702 mg/kg in soil sample PWW 6. TPH concentrations in soil samples PNW 3 and PWW 6 exceeded the NMOCD Closure Criterion and NMOCD Reclamation Standard. Chloride concentrations ranged from 64.0 mg/kg in soil samples PNW 3, PNW 4, and PSW 4 to 512 mg/kg in soil sample PNW 5. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples PNW 3 and PWW 6.

On October 26, 2022, Etech collected nine (9) confirmation soil samples (PNW 1 - LEFT 32', PNW 1 - RIGHT 32', PNW 6, and PF 88 @ 1' through PF 93 @ 1') from the sidewalls and floor of the Pad Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples PNW 6, PF 90 @ 1', PF 91 @ 1', PF 92 @ 1', and PF 93 @ 1' to 1,364 mg/kg in soil sample PF 89 @ 1'. TPH concentrations in soil samples PNW 1 - LEFT 32', PNW 1 - RIGHT 32', and PF 89 @ 1' exceeded the NMOCD Closure Criterion and/or NMOCD Reclamation Standard. Chloride concentrations ranged from 32.0 mg/kg in soil sample PF 89 @ 1' to 592 mg/kg in soil sample PF 92 @ 1'. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples PNW 1 - LEFT 32', PNW 1 - RIGHT 32', and PF 89 @ 1'.

On October 27, 2022, Etech collected 10 confirmation soil samples (PF 77 @ 4' through PF 86 @ 4') from the floor of the Pad Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 144 mg/kg in soil samples PF 82 @ 4' and PF 83 @ 4' to 1,260 mg/kg in soil sample PF 78 @ 4'. Chloride concentrations in soil samples PF 77 @ 4', PF 78 @ 4', PF 79 @ 4', PF 80 @ 3', and PF 84 @ 4' exceeded the NMOCD Closure Criterion and/or NMOCD Reclamation Standard. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples PF 77 @ 4' through PF 80 @ 3' and PF 84 @ 4'.

On October 28, 2022, Etech collected 13 confirmation soil samples (PF 87 @ 3' and PF 94 @ 1' through PF 105 @ 1') from the floor of the Pad Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX concentrations were below the NMOCD Closure Criterion and NMOCD Reclamation Standard in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL in a majority of the submitted soil samples, with the exception of samples PF 98 @ 4' and PF 105 @ 1', which exhibited concentrations of 1.87 mg/kg and 3.26 mg/kg, respectively. TPH concentrations ranged from less than the laboratory MDL in soil samples PF 87 @ 3', PF 94 @ 1', PF 95 @ 4', PF 96 @ 4', and PF 99 @ 4' through PF 103 @ 4' to 7,570 mg/kg in soil sample PF 105 @ 1'. TPH concentrations in soil samples PF 97 @ 1', PF 98 @ 4', and PF 105 @ 1' exceeded the NMOCD Closure Criterion and/or NMOCD Reclamation Standard. Chloride concentrations ranged from 80.0 mg/kg in soil sample PF 105 @ 1' to 1,630 mg/kg in soil sample PF 98 @ 4'. Chloride concentrations in soil samples PF 87 @ 3', PF 95 @ 4', PF 96 @ 4', PF 98 @ 4', PF 99 @ 4', and PF 104 @ 4' exceeded the NMOCD Closure Criterion and/or NMOCD Reclamation Standard. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples PF 87 @ 3', PF 95 @ 4' through PF 99 @ 4', PF 104 @ 4', and PF 105 @ 1'.

On October 31, 2022, Etech collected 22 confirmation soil samples (PNW 7, PEW 7, and PF 46 @ 1.5' through PF 65 @ 1.5') from the sidewalls and floor of the Pad Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples PEW 7, PF 48 @ 1.5', PF 50 @ 1.5', PF 53 @ 1.5', PF 54 @ 1.5', PF 55 @ 1.5', PF 58 @ 1.5', PF 60 @ 1.5', and PF 63 @ 1.5' to 1,059 mg/kg in soil sample PF 46 @ 1.5'. TPH concentrations in soil samples PNW 7, PF 46 @ 1.5', PF 47 @ 1.5', PF 49 @ 1.5', PF 52 @ 1.5', PF 57 @ 1.5', PF 59 @ 1.5', PF 61 @ 1.5', and PF 64 @ 1.5' exceeded the NMOCD Closure Criterion and NMOCD Reclamation Standard. Chloride concentrations ranged from 80.0 mg/kg in soil sample PF 63 @ 1.5' to 576 mg/kg in soil sample PF 53 @ 1.5'. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples PNW 7, PF 46 @ 1.5', PF 47 @ 1.5', PF 49 @ 1.5', PF 52 @ 1.5', PF 57 @ 1.5', PF 59 @ 1.5', PF 61 @ 1.5', and PF 64 @ 1.5'.

On November 3, 2022, Etech collected 12 confirmation soil samples (PWW 6-A, PF 12 @ 7', PF 13 @ 7', PF 14 @ 7', PF 16 @ 5', PF 20 @ 5', PF 33 @ 5', PF 36 @ 6', PF 37 @ 6', PF 38 @ 6', PF 40 @ 6', and PF 89 @ 2') from the sidewalls and floor of the Pad Excavation. The soil samples were submitted to the laboratory for analysis chloride. Soil samples PWW-6A and PF 89 @ 2' were also analyzed for concentrations of TPH. Laboratory analytical results indicated that chloride concentrations were below the applicable NMOCD Closure Criterion and/or NMOCD Reclamation Standard in each of the submitted soil samples and ranged from 64.0 mg/kg in soil sample PF 20 @ 5' to 384 mg/kg in soil sample PF 16 @ 5'. The TPH concentrations in soil samples PWW-6A and PF 89 @ 2' were 33.2 mg/kg and less than the laboratory MDL, respectively, which were below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On November 4, 2022, Etech collected one (1) confirmation soil sample (PF 43 @ 6') from the floor of the Pad Excavation. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated that the chloride concentration was 288 mg/kg and below the NMOCD Closure Criterion.

On November 7, 2022, Etech collected seven (7) confirmation soil samples (PNW 1 - LEFT 32-A, PNW 1 - RIGHT 32-A, PF 1 @ 6', PF 3 @ 6', PF 5 @ 6', PF 6 @ 6', and PF 7 @ 6') from the sidewalls and floor of the Pad Excavation. The soil samples were submitted to the laboratory for analysis of chloride. Soil samples PNW 1 - LEFT 32-A and PNW 1 - RIGHT 32-A were also analyzed for concentrations of TPH. Laboratory analytical results indicated that chloride concentrations were below the applicable NMOCD Closure Criterion and/or NMOCD Reclamation Standard in each of the submitted soil samples and ranged from 64.0 mg/kg in soil sample PF 1 @ 6' to 512 mg/kg in soil sample PF 5 @ 6'. The TPH concentrations in soil samples PNW 1 - LEFT 32-A and PNW 1 - RIGHT 32-A were 37.9 mg/kg and less than the laboratory MDL, respectively, which were below the NMOCD Closure Criterion.

On November 8, 2022, Etech collected 10 confirmation soil samples (PF 77 @ 8' through PF 80 @ 8', PF 84 @ 5', PF 87 @ 5', PF 95 @ 6', PF 96 @ 5', PF 98 @ 5', and PF 99 @ 6') from the floor of the Pad Excavation. The soil samples were submitted to

the laboratory for analysis of chloride. Soil sample PF 98 @ 5' was also analyzed for concentrations of TPH. Laboratory analytical results indicated that chloride concentrations were below the applicable NMOCD Closure Criterion and NMOCD Reclamation Standard in each of the submitted soil samples and ranged from 48.0 mg/kg in soil sample PF 79 @ 8' to 464 mg/kg in soil sample PF 78 @ 8'. The TPH concentration in soil sample PF 98 @ 5' was below both the NMOCD Closure Criterion and laboratory MDL.

On November 9, 2022, Etech collected 12 confirmation soil samples (PNW 7-A, PF 46 @ 2.5', PF 47 @ 2.5', PF 49 @ 2.5', PF 52 @ 2.5', PF 57 @ 2.5', PF 59 @ 2.5', PF 61 @ 2.5', PF 64 @ 2.5', PF 97 @ 2', PF 104 @ 5', and PF 105 @ 2') from the sidewalls and floor of the Pad Excavation. Soil samples PNW 7-A, PF 46 @ 2.5', PF 47 @ 2.5', PF 49 @ 2.5', PF 52 @ 2.5', PF 57 @ 2.5', PF 59 @ 2.5', PF 61 @ 2.5', PF 64 @ 2.5', PF 97 @ 2', and PF 105 @ 2' were submitted to the laboratory for analysis of TPH. Soil sample PF 104 @ 5' was submitted for analysis of chloride. Laboratory analytical results indicated that TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standard, and laboratory MDL in each of the submitted soil samples. The chloride concentration in soil sample PF 104 @ 5' was 112 mg/kg, which was below the NMOCD Closure Criterion.

On November 10, 2022, Etech collected one (1) confirmation soil sample (PNW 3-A) from the sidewall of the Pad Excavation. The soil sample was submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated that the TPH concentration was 44.7 mg/kg and below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

The final dimensions of the North Excavation were approximately 436 feet in length, 10 to 20 feet in width, and four (4) feet in depth. The final dimensions of the South Excavation were approximately 90 to 324 feet in length, 10 to 80 feet in width, and four (4) feet in depth. The final dimensions of the Pad Excavation were approximately 42 to 234 feet in length, 17 to 128 feet in width, and six (6) inches to eight (8) feet in depth. During the course of remediation activities, Etech transported approximately 10,380 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 10,380 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

The extents of the North, South, and Pad Excavations, along with the Deferral Area and the locations of the confirmation and deferral characterization samples are depicted in Figures 3A and 3B. Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix G.

## **6.0 DEFERRAL REQUEST**

Pursuant to the NMOCD-approved *Deferral Request*, remediation of impacted soil affected above the NMOCD Closure Criteria remaining in-situ in the Deferral Area will be completed upon decommissioning and abandonment of the SWD facility, in accordance with Sections 19.15.29.12 and 19.15.29.13 NMAC.

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

Areas affected by remediation and closure activities were substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected areas were compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads, pipeline rights-of-way, and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site. Final reclamation and re-vegetation of the Pad and Deferral Area will be conducted upon decommissioning and abandonment of the active SWD facility.

## 8.0 LIMITATIONS

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

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



## **9.0 DISTRIBUTION**

***Mewbourne Oil Company***

*4801 Business Park Blvd.*

*Hobbs, NM 88240*

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

*Oil Conservation Division, District 1*

*1220 South St. Francis Drive*

*Santa Fe, NM 87505*

***Hobbs Field Office***

*New Mexico State Land Office*

*2827 North Dal Paso Street*

*Suite 117*

*Hobbs, NM 88240*

*(Electronic Submission)*

# **Figure 1**

## **Topographic Map**



## Legend

● Site Location

**Figure 1**  
Topographic Map  
Mewbourne Oil Company

, -  
, NM

**eTECH**

Environmental & Safety Solutions, Inc.



Drafted: bja

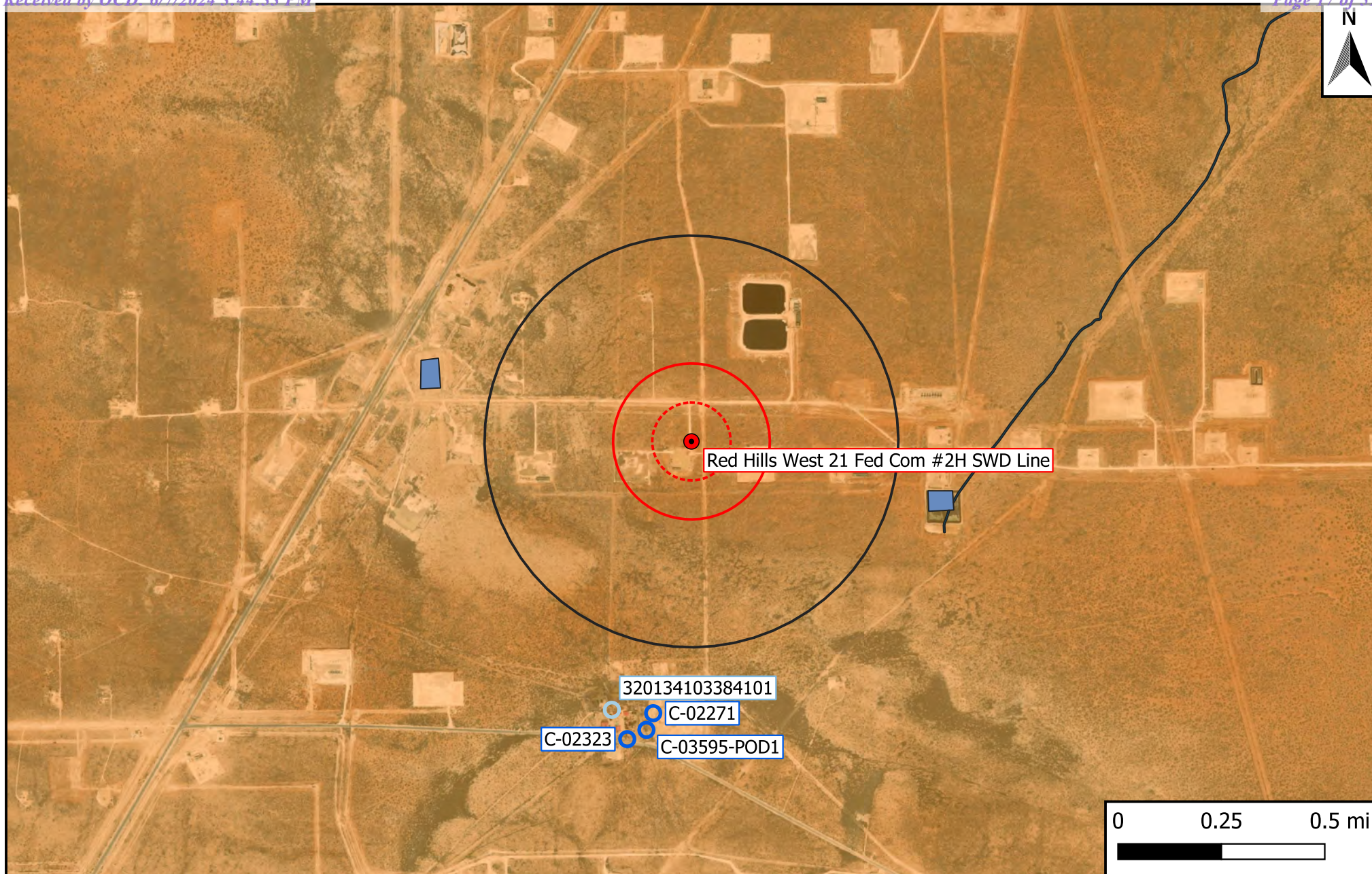
Checked: jwl

Date:

## **Figure 2**

### **Aerial Proximity Map**





## Legend

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

**Figure 2**  
Aerial Proximity Map  
Mewbourne Oil Company  
Red Hills West 21 Fed Com #2H SWD Line  
GPS: 32.035834, -103.680419  
Lea County, NM



Drafted: bja

Checked: jwl

Date: 6/21/22

## **Figure 3**

### **Site & Sample Location Map**











Legend	
	Excavated Area
	Deferral Area
	Liner
	Composite Wall Sample
	Deferral Characterization Sample
	Delineation Sample Point

Figure 3A  
Site & Sample Location Map (Pasture Excavations)  
Mewbourne Oil Company  
Red Hills West 21 Fed Com #2H SWD Line  
GPS: 32.035834, -103.680419  
Lea County



Drafted: bja

Checked: lc

Date: 1/4/23





## Legend

- |                |                                  |
|----------------|----------------------------------|
| Deferral Area  | Composite Floor Sample           |
| Excavated Area | Composite Wall Sample            |
| Liner          | Deferral Characterization Sample |
| Surface Scrape |                                  |

Figure 3B

Site & Sample Location Map (Pad Excavation)  
 Mewbourne Oil Company  
 Red Hills West 21 Fed Com #2H SWD Line  
 GPS: 32.035834, -104.680419  
 Lea County, NM



Drafted: bja

Checked: lc

Date: 1/4/23



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

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Red Hills West 21 Fed Com #2H SWD Line NMOCD Ref. #: nAPP2120041782											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
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)	Chlorid (mg/kg)
Delineation Samples											
NH1 @ Surf.	3/3/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH1 @ 1'	3/3/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH1 @ Surf.	3/3/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH1 @ 1'	3/3/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH2 @ Surf.	3/3/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH2 @ 1'	3/3/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH3 @ Surf.	3/3/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH3 @ 1'	3/3/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH4 @ Surf.	3/3/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH4 @ 1'	3/3/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH5 @ Surf.	3/4/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH5 @ 1'	3/4/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SH1 @ Surf.	3/4/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
SH1 @ 1'	3/4/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WH1 @ Surf.	3/4/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH1 @ 1'	3/4/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WH2 @ Surf.	3/4/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH2 @ 1'	3/4/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH3 @ Surf.	3/4/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH3 @ 1'	3/4/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH4 @ Surf.	3/4/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH4 @ 1'	3/4/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH5 @ Surf.	3/4/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH5 @ 1'	3/4/2022	1	In-Situ	<0.050	<0.300	<10.0	21.8	21.8	<10.0	21.8	48.0
SP1 @ Surf.	3/3/2022	0	Excavated	<0.050	<0.300	<10.0	57.6	57.6	12.3	69.9	1,490
SP1 @ 4'	8/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,080
SP1 @ 5'	8/10/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,200
SP1 @ 6'	8/10/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,870
SP1 @ 7'	8/10/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,120
SP1 @ 8'	3/3/2022	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP2 @ Surf.	3/3/2022	0	Excavated	<0.050	<0.300	<10.0	33.9	33.9	<10.0	33.9	336
SP2 @ 4'	8/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
SP2 @ 5'	8/10/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,710
SP2 @ 6'	8/10/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,710
SP2 @ 7'	8/10/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,210
SP2 @ 8'	8/10/2022	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,320
SP2 @ 9'	8/10/2022	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,240
SP2 @ 10'	8/10/2022	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,800
SP2 @ 11'	8/10/2022	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,160
SP2 @ 12'	8/10/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,160
SP2 @ 13'	8/10/2022	13	In-Situ	<0.050	<0.300	<10.0	73.2	73.2	64.0	137	1,410
SP2 @ 14'	3/3/2022	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SP3 @ Surf.	3/3/2022	0	Excavated	<0.050	<0.300	<10.0	23.1	23.1	<10.0	23.1	2,600

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>Mewbourne Oil Company</b> <b>Red Hills West 21 Fed Com #2H SWD Line</b> <b>NMOCD Ref. #: nAPP2120041782</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
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)
SP3 @ 4'	8/10/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
SP3 @ 5'	8/10/2022	5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
SP3 @ 6'	3/3/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SP4 @ Surf.	3/3/2022	0	Excavated	<0.050	<0.300	<10.0	178	178	81.6	260	1,620
SP4 @ 4'	3/3/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
SP4 @ 4'	8/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
SP4 @ 5'	8/10/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
SP4 @ 6'	8/10/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SP4 @ 7'	8/10/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SP5 @ Surf.	3/4/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,520
SP5 @ 4'	3/4/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP6 @ Surf.	3/4/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,080
SP6 @ 4'	9/2/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP6 @ 6'	9/2/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16
SP6 @ 8'	3/4/2022	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
SP7 @ Surf.	3/4/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,560
SP7 @ 4'	8/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,600
SP7 @ 5'	8/10/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,720
SP7 @ 6'	3/4/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
SP8 @ Surf.	3/4/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,800
SP8 @ 4'	8/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,080
SP8 @ 5'	8/10/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
SP8 @ 6'	8/10/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,040
SP8 @ 7'	8/10/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SP8 @ 8'	3/4/2022	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
OSS @ Sur.	6/16/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
OSS @ 1	6/16/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
Deferral Characterization Samples											
DFS 1 @ Surf.	5/27/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,700
DFS 1 @ 4'	5/27/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	992
DFS 1 @ 6'	5/27/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,040
DFS 1 @ 8'	5/27/2022	8	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
DFS 1 @ 9'	5/27/2022	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
DFS 2 @ Surf.	5/27/2022	0	In-Situ	<0.050	<0.300	<10.0	11.3	11.3	<10.0	11.3	592
DFS 2 @ 1'	5/27/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
DFS 2 @ 2'	5/27/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
DFS 2 @ 3'	5/27/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
DFS 3 @ Surf.	5/27/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	19,300
DFS 3 @ 3'	5/27/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
DFS 3 @ 4'	5/27/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
DFS 4 @ Surf.	5/27/2022	0	Excavated	<0.050	<0.300	<10.0	316	316	117	433	240
DFS 4 @ 1'	5/27/2022	1	Excavated	<0.050	<0.300	<10.0	75.8	75.8	16.6	92.4	176
DFS 4 @ 2'	5/27/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
DFS 4 @ 3'	5/27/2022	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304

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>Mewbourne Oil Company</b> <b>Red Hills West 21 Fed Com #2H SWD Line</b> <b>NMOCD Ref. #: nAPP2120041782</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
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)
DFS 4 @ 4'	5/27/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
DFS 5 @ Surf.	5/27/2022	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,800
DFS 5 @ 1'	5/27/2022	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	816
DFS 5 @ 2'	5/27/2022	2	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,440
DFS 5 @ 3'	5/27/2022	3	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,760
DFS 5 @ 4'	5/27/2022	4	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
DFS 5 @ 6'	5/27/2022	6	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,520
DFS 5 @ 8'	5/27/2022	8	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,520
DFS 5 @ 10'	5/27/2022	10	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
DFS 5 @ 12'	5/27/2022	12	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
DFS 5 @ 14'	5/27/2022	14	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
DFS 6 @ Surf.	5/27/2022	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,040
DFS 6 @ 4'	5/27/2022	4	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,520
DFS 6 @ 6'	5/27/2022	6	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,300
DFS 6 @ 8'	5/27/2022	8	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,440
DFS 6 @ 12'	5/27/2022	12	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,710
DFS 6 @ 14'	5/27/2022	14	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,540
DFS 6 @ 16'	5/27/2022	16	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
DFS 6 @ 18'	5/27/2022	18	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
DFS 6 @ 20'	5/27/2022	20	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
DFS 6 @ 22'	5/27/2022	22	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
Confirmation Samples - North Excavation											
NW 7	6/16/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EW 15A	6/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 16A	6/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
EW 17B	6/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 18A	6/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 19A	6/16/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
EW 20A	6/16/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
EW 21	6/16/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 22	6/22/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 16B	6/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW 17B	6/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW 18B	6/13/2022	0-4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
WW 18C	6/20/2022	0-4	In-Situ	-	-	-	-	-	-	-	48.0
WW 19B	6/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW 20B	6/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW 21	6/16/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW 22B	6/16/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
Confirmation Samples - South Excavation											
NW 1A	5/11/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 2C	5/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 3B	5/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 4	5/17/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**Mewbourne Oil Company**  
**Red Hills West 21 Fed Com #2H SWD Line**  
**NMOCD Ref. #: nAPP2120041782**

NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
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)
NW 5A	5/20/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 6	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EW 1B	5/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 2B	5/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 3A	5/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 4	5/17/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 5	5/17/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 6A	5/17/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EW 7B	5/20/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 8B	5/20/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EW 9A	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 10B	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 11A	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 12A	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
EW 13	6/9/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 14	6/9/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 1B	5/11/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW 2B	5/11/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
SW 3B	5/11/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW 4A	5/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW 5A	5/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW 6A	5/20/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 7A	5/20/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 8A	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 9B	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 10	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW 11C	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW 12	6/9/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 13	6/9/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 1E	5/11/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 2A	5/11/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 3B	5/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 4	5/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 5	5/17/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW 6	5/17/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 7	5/17/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 8B	5/20/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 9A	5/20/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
WW 10	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW 11B	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 12A	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 13A	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
WW 14	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
WW 15	5/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Red Hills West 21 Fed Com #2H SWD Line NMOCD Ref. #: nAPP2120041782											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
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)	Chlorid (mg/kg)
Confirmation Samples - Pad Excavation											
PNW 1 - LEFT 32'	10/26/2022	0-6	Excavated	<0.025	<0.150	<10.0	612	612	178	790	240
PNW 1 - LEFT 32-A	11/7/2022	0-6	In-Situ	-	-	<10.0	37.9	37.9	<10.0	37.9	-
PNW 1 - RIGHT 32'	10/26/2022	0-6	Excavated	<0.025	<0.150	<10.0	121	121	20.0	141	80.0
PNW 1 - RIGHT 32-A	11/7/2022	0-6	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
PNW 2	10/10/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
PNW 3	10/14/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
PNW 3	10/25/2022	0-0.5	Excavated	<0.025	<0.150	<10.0	476	476	108	584	64.0
PNW 3-A	11/10/2022	0-0.5	In-Situ	-	-	<10.0	44.7	44.7	<10.0	44.7	-
PNW 4	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	38.1	38.1	<10.0	38.1	64.0
PNW 5	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	69.1	69.1	10.2	79.3	512
PNW 6	10/26/2022	0-2.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	160
PNW 7	10/31/2022	0-1.5	Excavated	<0.050	<0.300	<10.0	247	247	61.0	308	192
PNW 7-A	11/9/2022	0-1.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
PEW 1	10/10/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
PEW 2	10/10/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
PEW 3	10/14/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
PEW 4	10/14/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
PEW 5	10/21/2022	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
PEW 6	10/21/2022	0-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
PEW 7	10/31/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
PSW 1	10/10/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
PSW 2	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	34.5	34.5	13.2	47.7	368
PSW 3	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
PSW 4	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
PWW 1	10/14/2022	0-7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
PWW 2	10/14/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
PWW 3	10/14/2022	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
PWW 4	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	192
PWW 5	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	41.9	41.9	11.7	53.6	320
PWW 6	10/25/2022	0-0.5	Excavated	<0.025	<0.150	<10.0	1,280	1,280	422	1,700	176
PWW 6-A	11/3/2022	0-0.5	In-Situ	-	-	<10.0	33.2	33.2	<10.0	33.2	-
PWW 7	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	60.3	60.3	25.3	85.6	352
PF 1 @ 4'	10/10/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,460
PF 1 @ 6'	11/7/2022	6	In-Situ	-	-	-	-	-	-	-	64.0
PF 2 @ 4'	10/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
PF 3 @ 4'	10/10/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,220
PF 3 @ 6'	11/7/2022	6	In-Situ	-	-	-	-	-	-	-	160
PF 4 @ 4'	10/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
PF 5 @ 4'	10/10/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,840
PF 5 @ 6'	11/7/2022	6	In-Situ	-	-	-	-	-	-	-	512
PF 6 @ 4'	10/10/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,680
PF 6 @ 6'	11/7/2022	6	In-Situ	-	-	-	-	-	-	-	192
PF 7 @ 4'	10/10/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,340

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>Mewbourne Oil Company</b> <b>Red Hills West 21 Fed Com #2H SWD Line</b> <b>NMOCD Ref. #: nAPP2120041782</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
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)
PF 7 @ 6'	11/7/2022	6	In-Situ	-	-	-	-	-	-	-	416
PF 8 @ 4'	10/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
PF 9 @ 4'	10/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
PF 10 @ 4'	10/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
PF 11 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
PF 12 @ 4'	10/21/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
PF 12 @ 7'	11/3/2022	7	In-Situ	-	-	-	-	-	-	-	144
PF 13 @ 4'	10/21/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
PF 13 @ 7'	11/3/2022	7	In-Situ	-	-	-	-	-	-	-	368
PF 14 @ 4'	10/21/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,240
PF 14 @ 7'	11/3/2022	7	In-Situ	-	-	-	-	-	-	-	304
PF 15 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
PF 16 @ 4'	10/21/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	832
PF 16 @ 5'	11/3/2022	5	In-Situ	-	-	-	-	-	-	-	384
PF 17 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
PF 18 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
PF 19 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
PF 20 @ 4'	10/21/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
PF 20 @ 5'	11/3/2022	5	In-Situ	-	-	-	-	-	-	-	64.0
PF 21 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
PF 22 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
PF 23 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
PF 24 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
PF 25 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
PF 26 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
PF 27 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
PF 28 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
PF 29 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
PF 30 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
PF 31 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
PF 32 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
PF 33 @ 4'	10/21/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	688
PF 33 @ 5'	11/3/2022	5	In-Situ	-	-	-	-	-	-	-	352
PF 34 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
PF 35 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
PF 36 @ 4'	10/21/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
PF 36 @ 6'	11/3/2022	6	In-Situ	-	-	-	-	-	-	-	336
PF 37 @ 4'	10/21/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,330
PF 37 @ 6'	11/3/2022	6	In-Situ	-	-	-	-	-	-	-	128
PF 38 @ 4'	10/21/2022	4	Excavated	<0.050	<0.300	<10.0	10.9	10.9	<10.0	10.9	880
PF 38 @ 6'	11/3/2022	6	In-Situ	-	-	-	-	-	-	-	160
PF 39 @ 4'	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
PF 40 @ 4'	10/21/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,600
PF 40 @ 6'	11/3/2022	6	In-Situ	-	-	-	-	-	-	-	320

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>Mewbourne Oil Company</b> <b>Red Hills West 21 Fed Com #2H SWD Line</b> <b>NMOCD Ref. #: nAPP2120041782</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
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)
PF 41	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
PF 42	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
PF 43	10/21/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	784
PF 43 @ 6'	11/4/2022	6	In-Situ	-	-	-	-	-	-	-	288
PF 44	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
PF 45	10/21/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
PF 46 @ 1.5'	10/31/2022	1.5	Excavated	<0.050	<0.300	<10.0	912	912	147	1,060	320
PF 46 @ 2.5'	11/9/2022	2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
PF 47 @ 1.5'	10/31/2022	1.5	Excavated	<0.050	<0.300	<10.0	651	651	115	766	192
PF 47 @ 2.5'	11/9/2022	2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
PF 48 @ 1.5'	10/31/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
PF 49 @ 1.5'	10/31/2022	1.5	Excavated	<0.050	<0.300	<10.0	730	730	138	868	144
PF 49 @ 2.5'	11/9/2022	2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
PF 50 @ 1.5'	10/31/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
PF 51 @ 1.5'	10/31/2022	1.5	In-Situ	<0.050	<0.300	<10.0	15.5	15.5	<10.0	15.5	384
PF 52 @ 1.5'	10/31/2022	1.5	Excavated	<0.050	<0.300	<10.0	351	351	143	494	144
PF 52 @ 2.5'	11/9/2022	2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
PF 53 @ 1.5'	10/31/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
PF 54 @ 1.5'	10/31/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
PF 55 @ 1.5'	10/31/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
PF 56 @ 1.5'	10/31/2022	1.5	In-Situ	<0.050	<0.300	<10.0	11.3	11.3	<10.0	11.3	400
PF 57 @ 1.5'	10/31/2022	1.5	Excavated	<0.050	<0.300	<10.0	312	312	89.5	402	128
PF 57 @ 2.5'	11/9/2022	2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
PF 58 @ 1.5'	10/31/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
PF 59 @ 1.5'	10/31/2022	1.5	Excavated	<0.050	<0.300	<10.0	690	690	174	864	240
PF 59 @ 2.5'	11/9/2022	2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
PF 60 @ 1.5'	10/31/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
PF 61 @ 1.5'	10/31/2022	1.5	Excavated	<0.050	<0.300	<10.0	93.7	93.7	22.9	117	320
PF 61 @ 2.5'	11/9/2022	2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
PF 62 @ 1.5'	10/31/2022	1.5	In-Situ	<0.050	<0.300	<10.0	78.5	78.5	17.4	95.9	192
PF 63 @ 1.5'	10/31/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
PF 64 @ 1.5'	10/31/2022	1.5	Excavated	<0.050	<0.300	<10.0	266	266	67.3	333	144
PF 64 @ 2.5'	11/9/2022	2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
PF 65 @ 1.5'	10/31/2022	1.5	In-Situ	<0.050	<0.300	<10.0	66.3	66.3	13.4	79.7	208
PF 66 @ 0"-6"	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
PF 67 @ 0"-6"	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	272
PF 68 @ 0"-6"	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	144
PF 69 @ 0"-6"	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	160
PF 70 @ 0"-6"	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	224
PF 71 @ 0"-6"	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
PF 72 @ 0"-6"	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
PF 73 @ 0"-6"	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	240
PF 74 @ 0"-6"	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
PF 75 @ 0"-6"	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	112

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>Mewbourne Oil Company</b> <b>Red Hills West 21 Fed Com #2H SWD Line</b> <b>NMOCD Ref. #: nAPP2120041782</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
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)
PF 76 @ 0"-6"	10/25/2022	0-0.5	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
PF 77 @ 4'	10/27/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>1,070</b>
PF 77 @ 8'	11/8/2022	8	In-Situ	-	-	-	-	-	-	-	208
PF 78 @ 4'	10/27/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>1,260</b>
PF 78 @ 8'	11/8/2022	8	In-Situ	-	-	-	-	-	-	-	464
PF 79 @ 4'	10/27/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>848</b>
PF 79 @ 8'	11/8/2022	8	In-Situ	-	-	-	-	-	-	-	48.0
PF 80 @ 3'	10/27/2022	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>1,040</b>
PF 80 @ 8'	11/8/2022	8	In-Situ	-	-	-	-	-	-	-	272
PF 81 @ 4'	10/27/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
PF 82 @ 4'	10/27/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
PF 83 @ 4'	10/27/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
PF 84 @ 4'	10/27/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>672</b>
PF 84 @ 5'	11/8/2022	5	In-Situ	-	-	-	-	-	-	-	416
PF 85 @ 4'	10/27/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
PF 86 @ 4'	10/27/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
PF 87 @ 3'	10/28/2022	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>768</b>
PF 87 @ 5'	11/8/2022	5	In-Situ	-	-	-	-	-	-	-	304
PF 88 @ 1'	10/26/2022	1	In-Situ	<0.025	<0.150	<10.0	37.0	37.0	<10.0	37.0	464
PF 89 @ 1'	10/26/2022	1	Excavated	<0.025	<0.150	<10.0	1,180	1,180	184	<b>1,360</b>	32.0
PF 89 @ 2'	11/3/2022	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
PF 90 @ 1'	10/26/2022	1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	432
PF 91 @ 1'	10/26/2022	1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	192
PF 92 @ 1'	10/26/2022	1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	592
PF 93 @ 1'	10/26/2022	1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	464
PF 94 @ 1'	10/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
PF 95 @ 4'	10/28/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>896</b>
PF 95 @ 6'	11/8/2022	6	In-Situ	-	-	-	-	-	-	-	160
PF 96 @ 4'	10/28/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>656</b>
PF 96 @ 5'	11/8/2022	5	In-Situ	-	-	-	-	-	-	-	64.0
PF 97 @ 1'	10/28/2022	1	Excavated	<0.050	<0.300	46.9	3,750	3,800	692	<b>4,490</b>	160
PF 97 @ 2'	11/9/2022	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
PF 98 @ 4'	10/28/2022	4	Excavated	<0.050	1.87	421	4,390	4,810	658	<b>5,470</b>	<b>1,630</b>
PF 98 @ 5'	11/8/2022	5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	128
PF 99 @ 4'	10/28/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>608</b>
PF 99 @ 6'	11/8/2022	6	In-Situ	-	-	-	-	-	-	-	256
PF 100 @ 1'	10/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
PF 101 @ 1'	10/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
PF 102 @ 4'	10/28/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
PF 103 @ 4'	10/28/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
PF 104 @ 4'	10/28/2022	4	Excavated	<0.050	<0.300	<10.0	21.8	21.8	<10.0	21.8	<b>672</b>
PF 104 @ 5'	11/9/2022	5	In-Situ	-	-	-	-	-	-	-	112
PF 105 @ 1'	10/28/2022	1	Excavated	<0.050	3.26	549	6,140	6,690	881	<b>7,570</b>	80.0
PF 105 @ 2'	11/9/2022	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-

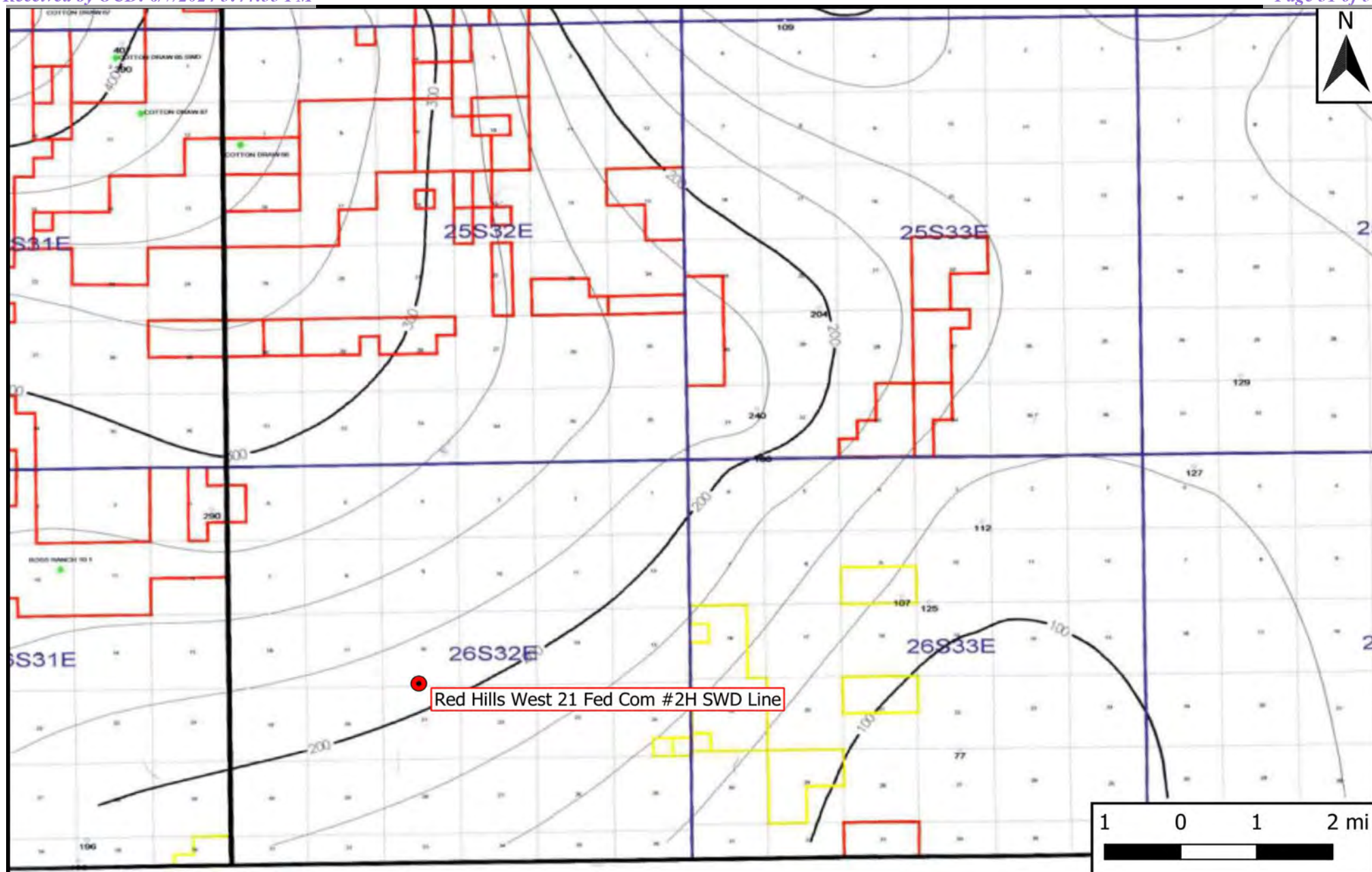
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

## **Appendix A**

### **Depth to Groundwater Information**



## Legend

● Site Location

## Figure 4

Inferred Depth to Groundwater Trend Map  
Mewbourne Oil Company

Lea County, NM

**eTECH**

Environmental & Safety Solutions, Inc.



Drafted: bja

Checked: jwl

Date: /2 /2



New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C_02271</a>	R	CUB	LE	2	3	21	26S	32E		624449	3544111*	1068	150	125	25
<a href="#">C_03595</a> POD1		CUB	LE	4	2	3	21	26S	32E	624423	3544045	1136	280	180	100
<a href="#">C_02271</a> POD2		CUB	LE	3	2	3	21	26S	32E	624348	3544010*	1185	270	250	20
<a href="#">C_02323</a>		C	LE	3	2	3	21	26S	32E	624348	3544010*	1185	405	405	0
<a href="#">C_03537</a> POD1		CUB	LE	3	2	3	21	26S	32E	624250	3543985	1233	850		
Average Depth to Water:														240 feet	
Minimum Depth:														125 feet	
Maximum Depth:														405 feet	

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 624597.83

Northing (Y): 3545168.8

Radius: 1610

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02271	2	3	21	26S	32E		624449	3544111*
<b>Driller License:</b>		<b>Driller Company:</b>							
<b>Driller Name:</b>		UNKNOWN							
<b>Drill Start Date:</b>		<b>Drill Finish Date:</b>				12/31/1909			
<b>Log File Date:</b>		<b>PCW Rev Date:</b>				<b>Source:</b>			
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b>			
<b>Casing Size:</b>		<b>Depth Well:</b>				<b>Depth Water:</b>			
	8.00	150 feet				15 GPM			
						125 feet			

\*UTM location was derived from PLSS - see Help

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2/9/22 9:32 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	C 03595 POD1	4	2	3	21	26S	32E	624423	3544045

Driller License: 1654

Driller Company: NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC

Driller Name:

Drill Start Date: 09/30/2013

Drill Finish Date: 09/30/2013

Plug Date:

Log File Date: 10/29/2013

PCW Rev Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 6.00

Depth Well: 280 feet

Depth Water: 180 feet

Water Bearing Stratifications:

Top Bottom Description

160 200 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

200 240

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# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02271 POD2	3	2	3	21	26S	32E	624348	3544010*
Driller License: 208		Driller Company:				VAN NOY, W.L.			
Driller Name:		W.L. VAN NOY							
Drill Start Date: 08/28/1992		Drill Finish Date:				09/09/1992		Plug Date:	
Log File Date: 10/28/1992		PCW Rcv Date:						Source: Shallow	
Pump Type: SUBMER		Pipe Discharge Size:						Estimated Yield: 15 GPM	
Casing Size: 6.38		Depth Well:				270 feet		Depth Water: 250 feet	
Water Bearing Stratifications:					Top	Bottom	Description		
					225	265	Sandstone/Gravel/Conglomerate		
Casing Perforations:					Top	Bottom			
					205	265			

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	C 02323	3	2	3	21	26S	32E	624348	3544010* 

x

<b>Driller License:</b>	1292	<b>Driller Company:</b>	BENTLE WATER WELL SERVICE	
<b>Driller Name:</b>	BENTLE, BILLY L.			
<b>Drill Start Date:</b>	05/25/1993	<b>Drill Finish Date:</b>	06/16/1993	<b>Plug Date:</b>
<b>Log File Date:</b>	06/24/1993	<b>PCW Rev Date:</b>		<b>Source:</b> Shallow
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>
<b>Casing Size:</b>		<b>Depth Well:</b>	405 feet	<b>Depth Water:</b> 405 feet

\*UTM location was derived from PLSS - see Help

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

2/9/22 9:32 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) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 03537 POD1	3	2	3	21	26S	32E	624250	3543985 

---

<b>Driller License:</b>	<b>Driller Company:</b>		
<b>Driller Name:</b>			
<b>Drill Start Date:</b>	<b>Drill Finish Date:</b>	<b>Plug Date:</b>	
<b>Log File Date:</b>	<b>PCW Rev Date:</b>	<b>Source:</b>	
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>	
<b>Casing Size:</b> 8.63	<b>Depth Well:</b> 850 feet	<b>Depth Water:</b>	

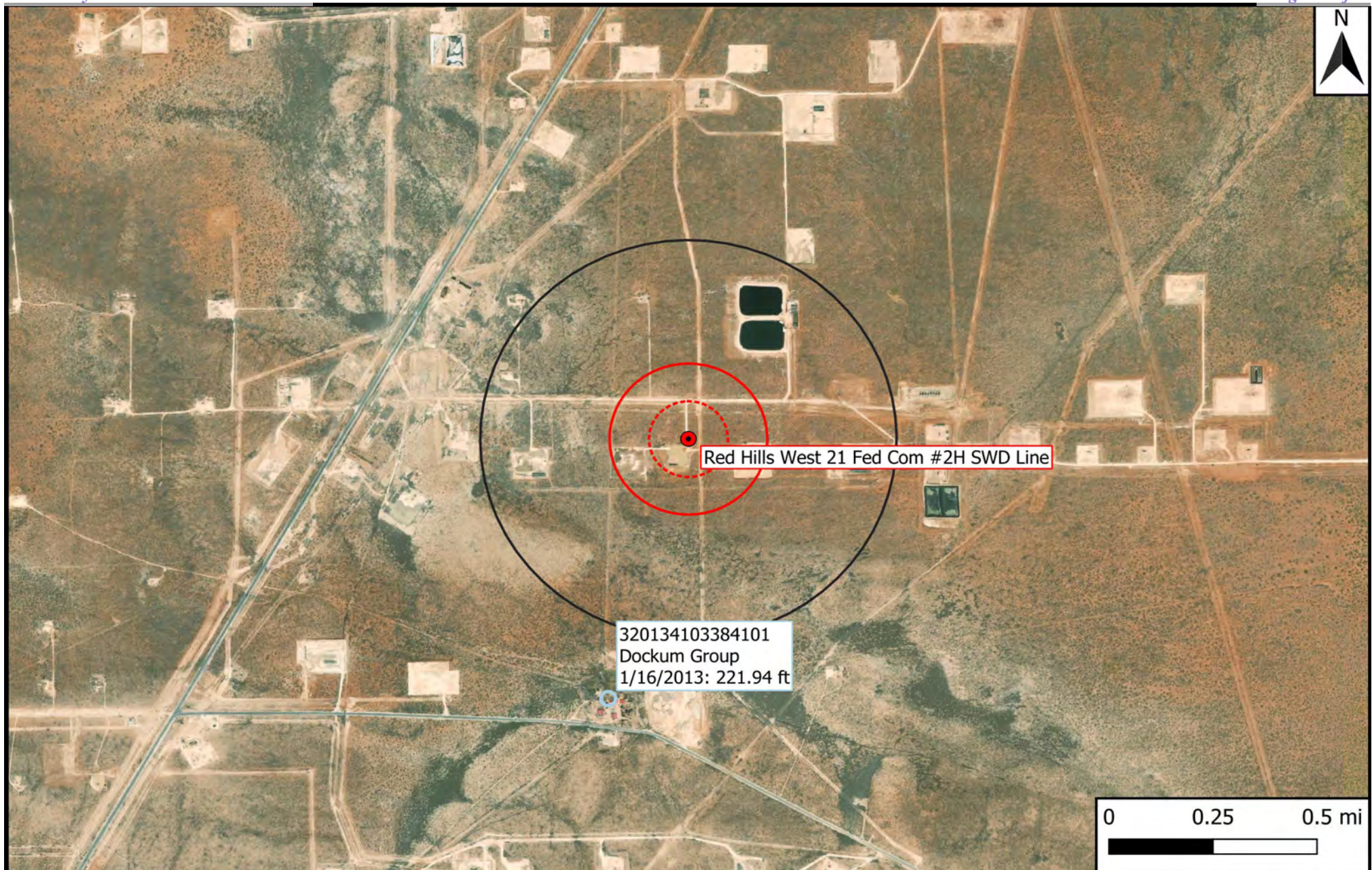
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2/9/22 9:32 AM

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  
Mewbourne Oil Company

eTECH

Environmental & Safety Solutions, Inc.



Drafted: bja

Checked: jwl

Date: /2 /2





National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
United States

GO

Click forNews Bulletins

Groundwater levels for the Nation

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

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320134103384101

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

USGS 320134103384101 26S.32E.21.32311

Lea County, New Mexico  
Latitude 32°01'35.2", Longitude 103°41'01.8" NAD83  
Land-surface elevation 3,130 feet above NAVD88  
The depth of the well is 405 feet below land surface.  
The depth of the hole is 405 feet below land surface.  
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.  
This well is completed in the Dockum Group (231DCKM) 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
1993-06-16		D	72019	405.00			1	L			A
2013-01-16	19:10 UTC	m	72019	221.94			P	S	USGS	S	A

Explanation

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

- [Questions about sites/data?](#)
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## **Appendix B**

### **Field Data**



## Sample Log

Project: Red Hills West 21 Fed Com 2H Battery Horizontal

Date: 5-3-22

Project Number: \_\_\_\_\_ Latitude: 32.03517 Longitude: -103.68083

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

**Stockpile = Stockpile #1**

GPS Sample Points, Center of Comp Areas





# Sample Log

Date: \_\_\_\_\_

Project: \_\_\_\_\_

Project Number: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Sample ID	PID/Odor	Chloride Conc.	GPS
DFS #1 @ Surf	—	2,188	
DFS #1 @ 1	—	1,348	
DFS #1 @ 2	—	1,896	
DFS #1 @ 3	—	640	
DFS #1 @ 4	—	726	
DFS #1 @ 5	—	592	
DFS #1 @ 6	—	1,044	
DFS #1 @ 7	—	704	
DFS #1 @ 8	—	648	
DFS #1 @ 9	—	440	
DFS #6 @ Surf	—	2,552 Over	
DFS #6 @ 1	—	1,772	
DFS #6 @ 2	—	2,552 over	
DFS #6 @ 3	—	2,552 over	
DFS #6 @ 4	—	2,552 over	
DFS #6 @ 6	—	2,552 over	
DFS #6 @ 8	—	2,188	
DFS #6 @ 10	—	1,772	
DFS #6 @ 12	—	1,652	
DFS #6 @ 14	—	1,176	
DFS #6 @ 16	—	756	
DFS #6 @ 18	—	640	
DFS #6 @ 20	—	536	
DFS #6 @ 22	—	488	
DFS #3 @ Surf	—	Over 2,500	
DFS #3 @ 1	—	1,812	
DFS #3 @ 2		Over 2,500	
DFS #3 @ 3		536	
DFS #3 @ 4		188	
DFS #3 @ 5		316	

Sample Point = SP #1 @ ## etc  
Floor = FL #1 etc  
Sidewall = SW #1 etc

Test Trench = TT #1 @ ##  
Refusal = SP #1 @ 4'-R  
Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b  
Stockpile = Stockpile #1  
GPS Sample Points, Center of Comp Areas



## Sample Log

Date: \_\_\_\_\_

Project:

Project Number: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

[illegible]

**Sample Point = SP #1 @ ## etc**

**Floor = FL #1 etc**

**Sidewall = SW #1 etc**

**Test Trench = TT #1 @ ##**

**Refusal = SP #1 @ 4'-R**

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

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

**Stockpile = Stockpile #1**

### GPS Sample Points, Center of Comp Areas

## Sample Log

Date: \_\_\_\_\_

Project: Red Hills West 21 Fed Com 2H Battery

Project Number: 15507 Latitude: 32.03517 Longitude: -103.68083

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1@1	NONE	1204	
FL1@3	NONE	2,584	
WW1A	NONE	648	
WW1B	NONE	2,228	
WW1C	NONE	900	
WW1D	NONE	900	
WW1E	NONE	440	
SW1A	NONE	1204	
NW1A	NONE	440	
SW2A	NONE	2,228	
NW2A	NONE	2,584	
SW2B	NONE	648	
NW2A	NONE	160	
SW2B	NONE	524	
SW3A	NONE	628	
SW3B	NONE	312	
SW4A	NONE	524	
SW5	NONE	388	
NW2B	NONE	996	
NW3A	NONE	2,584	
EW1A	NONE	1,308	
WW4A	NONE	928	
WW3A	NONE	740	
EW2A	NONE	928	
EW1B	NONE	388	
WW4B	NONE	440	
WW3B	NONE	312	
EW2B	NONE	524	
NW3	NONE	212	
NW2	NONE	524	
NW4A	NONE	1,596	
NW4B	NONE	1,704	
EW3A	NONE	432	
NW4C	NONE	900	
EW4A	NONE	928	
WW5A	NONE	2,584	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



## Sample Log

Project: Red Hills West 21 Fed Com 2H

Date: \_\_\_\_\_

Project Number: 15007 Latitude: 32.03517 Longitude: 103.68083

Sample ID	PID/Odor	Chloride Conc.	GPS
EWB B	NONE	356	
WW5 B	NONE	400	
EW5 A	NONE	1020	
WW2 A	NONE	2557	
EW5 B	NONE	432	
WW6 B	NONE	400	
EW6	NONE	356	
WW7 A	NONE	316	
SW6 A	NONE	400	
WW8 A	NONE	696	
WW8 B	NONE	488	
EW7 A	NONE	840	
EW7 B	NONE	244	
WW9 A	NONE	400	
EW8 A	NONE	640	
NW5 A	NONE	488	
SW7 A	NONE	244	
EW8 B	NONE	400	
EW9 A	NONE	400	
WW10 A	NONE	536	
WW11 A	NONE	696	
WW11 B	NONE	488	
EW10 A	NONE	696	
SW8 A	NONE	444	
WW12 A	NONE	356	
EW10 B	NONE	444	
EW11 A	NONE	400	
SW9 A	NONE	1,096	
SW9 B	NONE	488	
EW12	NONE	356	
WW13	NONE	400	
WW14 A	NONE	1772	
WW14 B	NONE	1260	
WW6 A	NONE	1544	
WW14 C	NONE	880	
WW18 A	NONE	640	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



## Sample Log

Date: \_\_\_\_\_

 Project: \_\_\_\_\_  
 Project Number: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Sample ID	PID/Odor	Chloride Conc.	GPS
NW5b	None	756	
NW6C	None	752	
NW5D	None	712	
SW5D 14	-	212	
SW510	-	596	
WW15A	-	388	
SW11A	-	1544	
SW11B	-	1260	
SW11C	-	576	
SW12A	-	212	
SW13	-	406	
EW513	-	168	
EW514	-	144	
WW16A	-	1772	
EW15A	-	180	
WW16B	-	1260	
WW16C	-	444	
WW17A	-	880	
WW17B	-	536	
EW16A	-	880	
EW16B	-	588	
EW17A	-	588	
EW18A	-	388	
WW19A	-	880	
WW19B	-	316	
WW20A	-	949	
WW20B	-	444	
EW19A	-	588	
EW20A	-	356	
WW21A	-	886	
WW21B	-	440	
WW22A	-	1196	
EW21A	-	192	
WW22B	-	356	
NW7A	-	356	
WW18	-	444	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



200 → 300  
Sgtt per areaSgtt Samples with  
Sgtt per area

map on the back



## Sample Log

Date:

10/10/22

Project: Red Hills West 21 Fed Com 211

Project Number: 15507

Latitude: 32.03517

Longitude: -103.68083

Sample ID	PID/Odor	Chloride Conc.	GPS
PNW1		6.2 1460	X
<del>PNW1</del> PNW2		3.4 468	✓
<del>PNW1</del> PEW1		2.0 200	✓
PEW2		1.8 176	✓
PSW1		2.2 232	✓
<del>PNW1</del> PNW1		7.4 2204	X
PNW1b		7.2 2052	X
PNW1b		6.6 1672	X
PNW1	-	1640-1328-1072-1152-992-1152-1152-1236-1236-1236	
PWW1	-	992-460	
PWW2	-	316	
PNW14 PEW3	-	1528-1236-664-556	
PNW1-32' left	-	612-724-1072-852-788-1428-920-1348-1076-1176	
PNW3-32' right	-	788-508	
EW4	-	880-536	
PNW1e1-2e3	-	948-880-816	
PWW3	-	1260-1176-1260-1020-588	
PNW1e1	-	1444	
PNW1e2 32'	-	880	65' Wall C-1 1/2
PNW1e2 32'	-	948	
<del>PNW1</del> PNW1-32' Wall Right	-	1096e1 1348e2 948	
PNW1-32' Wall Left	-	948e1 1444e2 1176	
PNW1-32' Wall Left	-	1260e2 1020	
PNW1-32' Wall Right	-	1096e2 1096	
PNW1-32' Wall Left	-	1260e2 1772	
PNW1-32' Wall Right	-	1444e2 1544	
PEW5	-	880-1096-612-1152-1760-222-11640-1640-332	
PNW1-32' Wall Left	-	1556-1544-1528-1760-1888-1236-1072-2532-372	
PNW1-32' Wall Right	-	1556-816-1760-1428-1880-2384-1888-2532-460	
PEW6	-	1760-1236-332	
PF66e0-6"	-	144	
PF67e0-6"	-	460	
PF68e0-6"	-	508	
PF69e0-6"	-	228	
PF70e0-6"	-	372	
PF71e0-6"	-	416	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



34



## Sample Log

Date: 10-24-22Project: Red Hills West 21 Fed Com 2HProject Number: 15507Latitude: 32.03517Longitude: -103.68083

Sample ID	PID/Odor	Chloride Conc.	GPS
PF72e0-6"	-	372	
PF73e0-6"	-	463	
PF74e0-6"	-	372	
PF75e0-6"	-	460	
PF76e0-6"	-	460	
PSW2	-	372	
PWW4	-	296	
PSW3	-	508	
PSW4	-	260	
PWW5	-	556	
PWW6	-	260	
PWW7	-	556	
<del>PWW3</del> PNW3	-	508	
PNW4	-	228	
PNW5	-	508	
PF77e1e3	-	788-1328	
PF78e1e3	-	2348-1428	
PF79e1e3	-	1328-1428	
PF80e1e3	-	3472-1640	
PF81e1e3	-	1236-920	
PF82e1e3	-	2348-260	
PF83e1e3	-	5244-664	
PF84e1e3	-	1236-664	
PF85e1e3	-	992-1760	
PF86e1e3	-	1528-1760	
PF87e1e3	-	788-508	
PF88e1	-	508	
PF89e1	-	172	
PNW6	-	460	
PF90e1	-	460	
PF91e1	-	228	
PF92e1	-	556	
PF93e1	-	460	
PF94e1	-	332	
PF95e1	-	1528	
PF96e1	-	1336	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas





# Sample Log

Project: Red Hills West 21 Fed Com 2H

Date: 10-26-22

Project Number: 15507

Latitude: 32.03517

Longitude: -103.68083

Sample ID	PID/Odor	Chloride Conc.	GPS
PF 97e1'	-	372	
PF 98e1'	-	1236	
PF 99e1'	-	852	
PF 100e1'	-	120	
PF 101e1'	-	260	
PF 102e1'	-	1072	
PF 103e1'	-	1328	
PF 104e1'	-	1152	
PF 105e1'	-	2120	
PF 46e1 1/2'	-	508	
PF 47e1 1/2'	-	508	
PF 48e1 1/2'	-	260	
PF 49e1 1/2'	-	296	
PF 50e1 1/2'	-	460	
PF 51e1 1/2'	-	460	
PF 52e1 1/2'	-	144	
PF 53e1 1/2'	-	508	
PF 54e1 1/2'	-	460	
PF 55e1 1/2'	-	508	
PF 56e1 1/2'	-	460	
PF 57e1 1/2'	-	228	
PF 58e1 1/2'	-	260	
PF 59e1 1/2'	-	372	
PF 60e1 1/2'	-	416	
PF 61e1 1/2'	-	372	
PF 62e1 1/2'	-	416	
PF 63e1 1/2'	-	372	
PF 64e1 1/2'	-	144	
PF 65e1 1/2'	-	508	
PNW 7	-	296	
PNW PEW 7	-	332	
PF 1e 6'	-	228	
PF 3e 6'	-	460	
PF 5e 6'	-	508	
PF 6e 6'	-	372	
PF 7e 6'	-	544	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas





## Sample Log

Date: 11-2-22

Project: Red Hill West 21 Fed Com 2 H

Project Number: 15507 Latitude: 32.03517 Longitude: -103.68083

Sample ID	PID/Odor	Chloride Conc.	GPS
PF12e5e7	—	788.172	
PF13e5e7	—	920.332	
PF14e7	—	372	
PF16e5	—	424	
PF20e5	—	176	
PF33e5	—	340	
PF36e6	—	380	
PF37e6	—	176	
PF38e6	—	264	
PF40e6	—	380	
PF43e6	—	232	
PF77e5e8	—	1272.300	chl
PF78e5e8	—	748.424	chl
PF79e5e8	—	264	chl
PF80e5e8	—	264	chl
PF84e5	—	572	chl
PF87e5	—	380	chl
PF95e8	—	340	chl
PF96e5	—	468	chl
PF97e2	—		TPH
PF98e5	—	468	chl + TPH
PF99e8	—	380	chl
PF100e5	—	380	chl
PF105e2	—		TPH

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



# Soil Profile

Date: \_\_\_\_\_

Project: Red Hills West 21 Fed Com 2H Battery

Project Number: Pending Latitude: 32.03517 Longitude: -103.68083

Depth (ft. bgs)

Description

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Caliche  
Caliche  
Caliche  
sand  
sand  
Clay - sand  
Clay - sand  
Clay - sand

## **Appendix C**

### **Photographic Log**




## Photographic Log


<b>Photo Number:</b> 1	
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 2	
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the affected area.	





## Photographic Log

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

<b>Photo Number:</b> 6	
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the North Excavation.	




## Photographic Log

<b>Photo Number:</b> 7	
<b>Photo Direction:</b> West-Southwest	
<b>Photo Description:</b>  View of the South Excavation.	

<b>Photo Number:</b> 8	
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the South Excavation.	



## Photographic Log


<b>Photo Number:</b> 9	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the South Excavation.	

<b>Photo Number:</b> 10	
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the South Excavation.	



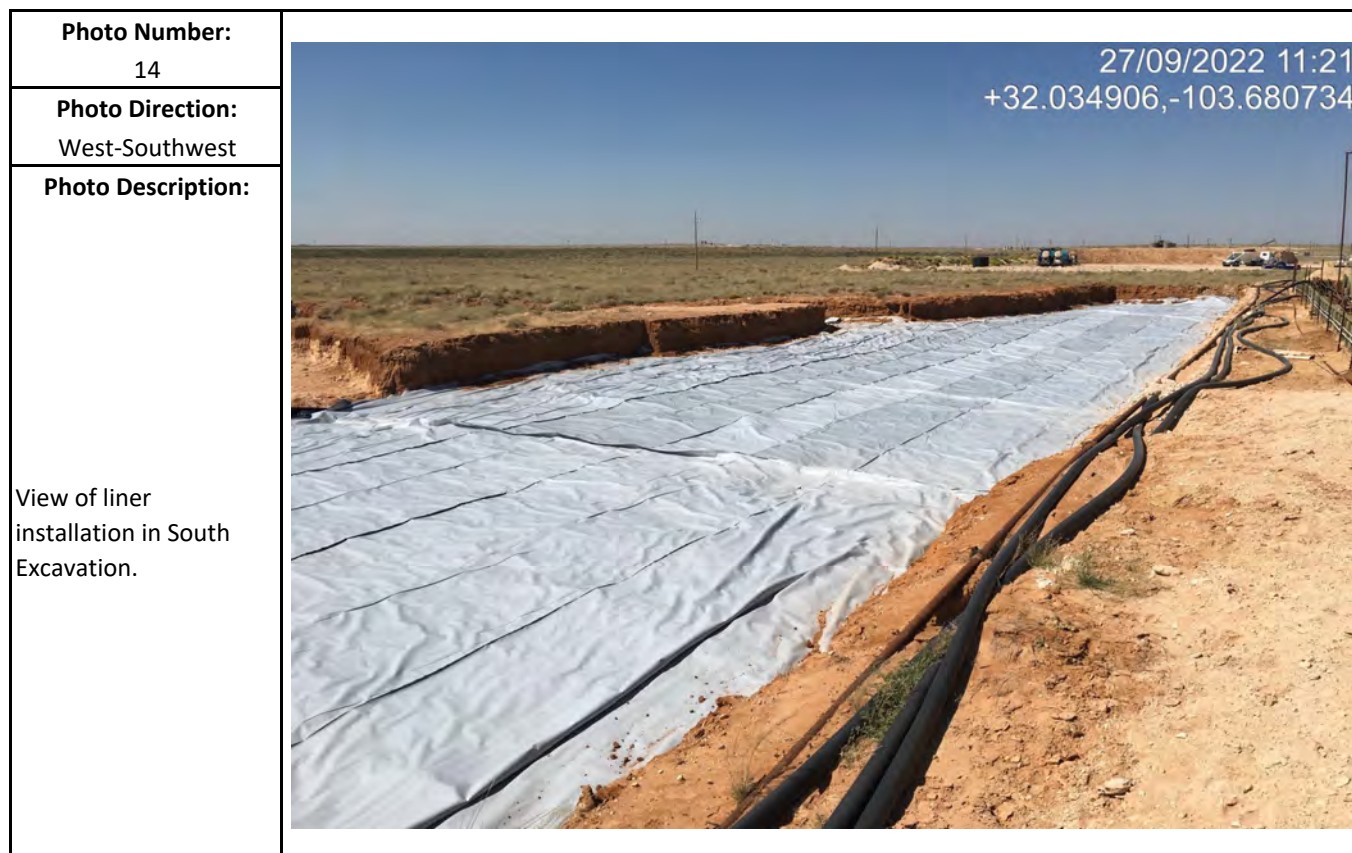
## Photographic Log

<b>Photo Number:</b> 11	
<b>Photo Direction:</b> South-Southeast	
<b>Photo Description:</b>  View of liner installation in North Excavation.	

<b>Photo Number:</b> 12	
<b>Photo Direction:</b> East-Southeast	
<b>Photo Description:</b>  View of liner installation in South Excavation.	



## Photographic Log



## Photographic Log

<b>Photo Number:</b> 15	
<b>Photo Direction:</b> East-Southeast	
<b>Photo Description:</b>  View of the Pad Excavation.	

<b>Photo Number:</b> 16	
<b>Photo Direction:</b> East-Southeast	
<b>Photo Description:</b> View of the Pad Excavation.	



## Photographic Log


<b>Photo Number:</b> 17	
<b>Photo Direction:</b> East-Southeast	
<b>Photo Description:</b>  View of the Pad Excavation.	

<b>Photo Number:</b> 18	
<b>Photo Direction:</b> South-Southeast	
<b>Photo Description:</b>  View of the Pad Excavation.	



## Photographic Log

<b>Photo Number:</b> 19	
<b>Photo Direction:</b> West-Southwest	
<b>Photo Description:</b>  View of the Pad Excavation.	

<b>Photo Number:</b> 20	
<b>Photo Direction:</b> South-Southwest	
<b>Photo Description:</b>  View of the Pad Excavation.	



## Photographic Log

<b>Photo Number:</b> 21	
<b>Photo Direction:</b> West-Southwest	
<b>Photo Description:</b>  View of the Pad Excavation.	

<b>Photo Number:</b> 22	
<b>Photo Direction:</b> South-Southwest	
<b>Photo Description:</b>  View of the Pad Excavation.	




## Photographic Log

<b>Photo Number:</b> 23	
<b>Photo Direction:</b> West-Southwest	
<b>Photo Description:</b>  View of the Pad Excavation.	

<b>Photo Number:</b> 24	
<b>Photo Direction:</b> West-Southwest	
<b>Photo Description:</b>  View of the Pad Excavation.	




## Photographic Log

<b>Photo Number:</b> 25	 <p>Oct 7, 2022 at 11:26:21 AM Jal NM 88252 United States</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the North Excavation after backfill and regrading.	

<b>Photo Number:</b> 26	 <p>Oct 7, 2022 at 11:33:08 AM Jal NM 88252 United States</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the North Excavation after backfill and regrading.	


## Photographic Log


<b>Photo Number:</b> 27	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the South Excavation after backfill and regrading.	

<b>Photo Number:</b> 28	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the South Excavation after backfill and regrading.	




## Photographic Log


<b>Photo Number:</b> 29	 <p>Oct 7, 2022 at 11:21:33 AM Jal NM 88252 United States</p>
<b>Photo Direction:</b> South-Southwest	
<b>Photo Description:</b>  View of the South Excavation after backfill and regrading.	

<b>Photo Number:</b> 30	 <p>Oct 7, 2022 at 11:22:18 AM Jal NM 88252 United States</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the South Excavation after backfill and regrading.	




## Photographic Log

<b>Photo Number:</b> 31	
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the South Excavation after backfill and regrading.	

<b>Photo Number:</b> 32	
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the South Excavation after backfill and regrading.	

## Photographic Log


<b>Photo Number:</b> 33	 <p>Oct 7, 2022 at 11:24:18 AM Jal NM 88252 United States</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the South Excavation after backfill and regrading.	

<b>Photo Number:</b> 34	 <p>Oct 7, 2022 at 11:24:38 AM Jal NM 88252 United States</p>
<b>Photo Direction:</b> East-Southeast	
<b>Photo Description:</b>  View of the South Excavation after backfill and regrading.	



## Photographic Log

<b>Photo Number:</b> 35	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the Pad Excavation after backfill and regrading.	

<b>Photo Number:</b> 36	
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the Pad Excavation after backfill and regrading.	



## Photographic Log

<b>Photo Number:</b> 37	
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the Pad Excavation after backfill and regrading.	

<b>Photo Number:</b> 38	
<b>Photo Direction:</b> West-Southwest	
<b>Photo Description:</b>  View of the Pad Excavation after backfill and regrading.	

## **Appendix D**

### **Laboratory Analytical Reports**



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

March 08, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/03/22 15:50.

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: NH 1 @ SURFACE (H220846-01)**

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 81.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.2 % 59.5-142

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 and 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 damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: NH 1 @ 1' (H220846-02)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514		
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663		
Total BTEx	<0.300	0.300	03/05/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 81.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.9 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: EH 1 @ SURFACE (H220846-03)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514		
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663		
Total BTEx	<0.300	0.300	03/05/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.1 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: EH 1 @ 1' (H220846-04)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514		
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663		
Total BTEx	<0.300	0.300	03/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	03/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: EH 2 @ SURFACE (H220846-05)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEx	<0.300	0.300	03/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: EH 2 @ 1' (H220846-06)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514		
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663		
Total BTEx	<0.300	0.300	03/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	03/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: EH 3 @ SURFACE (H220846-07)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEx	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	03/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: EH 3 @ 1' (H220846-08)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: EH 4 @ SURFACE (H220846-09)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514		
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663		
Total BTEX	<0.300	0.300	03/05/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 82.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: EH 4 @ 1' (H220846-10)**

BTEx 8021B		mg/kg	Analyzed By: MS\							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514		
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663		
Total BTEX	<0.300	0.300	03/05/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13		
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01		
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND						

Surrogate: 1-Chlorooctane 77.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.9 % 59.5-142

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Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

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

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: P.O. Box 301				Company: Mewbourne																			
City: Lovington Hobbs State: NM Zip: 88260-88240				Attn: Robbie Runnels																			
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																			
Project #: 15507 Project Owner: Robbie Runnels				City:																			
Project Name: Red Hills West 21 Fed Com 2H Battery				State: Zip:																			
Project Location: Mewbourne Oil Company				Phone #:																			
Sampler Name: Eric Mojica				Fax #:																			
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / GEL	OTHER :	DATE	TIME									
H220846																							
1	NH1e Surf.	G	1			✓				✓			3-3-22		✓	✓	✓						
2	NH1e I'	G	1			✓				✓					✓	✓	✓						
3	EH1e Surf.	G	1			✓				✓					✓	✓	✓						
4	EH1e I'	G	1			✓				✓					✓	✓	✓						
5	EH2e Surf.	G	1			✓				✓					✓	✓	✓						
6	EH2e I'	G	1			✓				✓					✓	✓	✓						
7	EH3e Surf.	G	1			✓				✓					✓	✓	✓						
8	EH3e I'	G	1			✓				✓					✓	✓	✓						
9	EH4e Surf.	G	1			✓				✓					✓	✓	✓						
10	EH4e I'	G	1			✓				✓					✓	✓	✓						

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Relinquished By: <i>Eric Mojica</i>	Date: 3-3-22 Time: 1550	Received By: <i>Jamara Eldaker</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
			REMARKS:	
Delivered By: (Circle One) 4.1e C-0.5e Sampler - UPS - Bus - Other: 3.6e #113			Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
CHECKED BY: <i>J.O.</i>			Please email results to pm@etechenv.com.	





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

---

March 10, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/04/22 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/03/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 1 @ SURFACE (H220874-01)**

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	03/08/2022	ND	2.04	102	2.00	4.39		
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51		
Total BTEX	<0.300	0.300	03/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	03/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	195	97.6	200	26.1	
DRO >C10-C28*	57.6	10.0	03/09/2022	ND	197	98.4	200	13.0	
EXT DRO >C28-C36	12.3	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.4 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/03/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 1 @ 8' (H220874-02)**

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	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEx	<0.300	0.300	03/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	195	97.6	200	26.1	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	197	98.4	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 87.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.7 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/03/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 2 @ SURFACE (H220874-03)**

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	03/08/2022	ND	2.04	102	2.00	4.39		
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51		
Total BTEX	<0.300	0.300	03/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	195	97.6	200	26.1	
DRO >C10-C28*	33.9	10.0	03/09/2022	ND	197	98.4	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/03/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 2 @ 14' (H220874-04)**

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	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEX	<0.300	0.300	03/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	03/08/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	195	97.6	200	26.1	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	197	98.4	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/03/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 3 @ SURFACE (H220874-05)**

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	03/08/2022	ND	2.04	102	2.00	4.39		
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51		
Total BTEX	<0.300	0.300	03/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	03/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	23.1	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 82.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.9 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/03/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 3 @ 6' (H220874-06)**

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	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEx	<0.300	0.300	03/08/2022	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	160	16.0	03/08/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.3 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/03/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 4 @ SURFACE (H220874-07)**

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	03/08/2022	ND	2.04	102	2.00	4.39		
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51		
Total BTEX	<0.300	0.300	03/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1620	16.0	03/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	178	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	81.6	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.5 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/03/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 4 @ 4' (H220874-08)**

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	03/08/2022	ND	2.04	102	2.00	4.39		
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51		
Total BTEX	<0.300	0.300	03/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	03/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 5 @ SURFACE (H220874-09)**

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	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEx	<0.300	0.300	03/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	3520	16.0	03/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 96.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 5 @ 4' (H220874-10)**

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	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEx	<0.300	0.300	03/08/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/08/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 89.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 6 @ SURFACE (H220874-11)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35		
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37		
Total BTEx	<0.300	0.300	03/08/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6080	16.0	03/08/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 6 @ 8' (H220874-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	03/08/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 7 @ SURFACE (H220874-13)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35		
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37		
Total BTEx	<0.300	0.300	03/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	6560	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 7 @ 6' (H220874-14)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35		
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37		
Total BTEX	<0.300	0.300	03/08/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.1 % 59.5-142

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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 8 @ SURFACE (H220874-15)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35		
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37		
Total BTEx	<0.300	0.300	03/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	4800	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SP 8 @ 8' (H220874-16)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35		
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37		
Total BTEX	<0.300	0.300	03/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	64.0	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: EH 5 @ SURFACE (H220874-17)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35		
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37		
Total BTEX	<0.300	0.300	03/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 98.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: EH 5 @ 1' (H220874-18)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35		
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37		
Total BTEX	<0.300	0.300	03/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	80.0	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SH 1 @ SURFACE (H220874-19)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35		
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37		
Total BTEX	<0.300	0.300	03/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: SH 1 @ 1' (H220874-20)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35		
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37		
Total BTEX	<0.300	0.300	03/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	48.0	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 99.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: WH 1 @ SURFACE (H220874-21)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35		
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37		
Total BTEX	<0.300	0.300	03/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: WH 1 @ 1' (H220874-22)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/09/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: WH 2 @ SURFACE (H220874-23)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: WH 2 @ 1' (H220874-24)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 95.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.3 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: WH 3 @ SURFACE (H220874-25)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35		
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37		
Total BTEX	<0.300	0.300	03/08/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	211	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	193	96.4	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 82.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: WH 3 @ 1' (H220874-26)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEx	<0.300	0.300	03/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	211	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	193	96.4	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: WH 4 @ SURFACE (H220874-27)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35		
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37		
Total BTX	<0.300	0.300	03/08/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	211	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	193	96.4	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: WH 4 @ 1' (H220874-28)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEx	<0.300	0.300	03/08/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	211	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	193	96.4	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: WH 5 @ SURFACE (H220874-29)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35		
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59		
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47		
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37		
Total BTEX	<0.300	0.300	03/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	211	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	193	96.4	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 94.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/04/2022	Sampling Date:	03/04/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: WH 5 @ 1' (H220874-30)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/09/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	211	105	200	14.0	
DRO >C10-C28*	21.8	10.0	03/09/2022	ND	193	96.4	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager





# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 3

Page 33 of 35

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc. <b>Project Manager:</b> Lance Crenshaw <b>Address:</b> P.O. Box 301 <b>City:</b> Lovington Hobbs <b>State:</b> NM <b>Zip:</b> 88260-88240 <b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429 <b>Project #:</b> 15507 <b>Project Owner:</b> Robbie Runnels <b>Project Name:</b> Red Hills West 21 Fed Com 2H Battery <b>Project Location:</b> Mewbourne Oil Company <b>Sampler Name:</b> Eric Mojica										<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Mewbourne <b>Attn:</b> Robbie Runnels <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>					<b>ANALYSIS REQUEST</b>									
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)												
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:												ACID/BASE	ICE / GEL	OTHER:	DATE
14220874																								
01	SP1eS.v.f.	G	1			✓				✓	✓	✓	3-3-22		✓	✓	✓							
02	SP1e8	G	1			✓				✓	✓	✓			✓	✓	✓							
03	SP2eS.v.f.	G	1			✓				✓	✓	✓			✓	✓	✓							
04	SP2e14	G	1			✓				✓	✓	✓			✓	✓	✓							
05	SP3eS.v.f.	G	1			✓				✓	✓	✓			✓	✓	✓							
06	SP3e8	G	1			✓				✓	✓	✓			✓	✓	✓							
07	SP4eS.v.f.	G	1			✓				✓	✓	✓			✓	✓	✓							
08	SP4e4	G	1			✓				✓	✓	✓			✓	✓	✓							
09	SP5eS.v.f.	G	1			✓				✓	✓	✓	3-4-22		✓	✓	✓							
10	SP5e4	G	1			✓				✓	✓	✓			✓	✓	✓							

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<b>Relinquished By:</b> Eric Mojica <b>Relinquished By:</b> Date: 3-4-22 Time: 15:45	<b>Received By:</b> Jodi Henderson <b>Received By:</b> Date: Time:	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>REMARKS:</b> Please email results to pm@etechenv.com.
--	--	---

**Delivered By: (Circle One)** - 5.60e  
**Sampler - UPS - Bus - Other:** #113  
5.12

Sample Condition: ☒ Cool ☐ Intact  
☐ Yes ☐ Yes  
☐ No ☐ No

CHECKED BY: *[Signature]*



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

No Rush

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

2 of 3

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: Mowhorne																							
City: Lovington Hobbs State: NM Zip: 88260 88240				Attn: Robbie Runnels																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																							
Project #: 15507 Project Owner: Robbie Runnels				City:																							
Project Name: Red Hills West 21 Fed Com 2 H Battery				State: Zip:																							
Project Location: Mowhorne Oil Company				Phone #:																							
Sampler Name: Eric Mojica				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
11	SP8eS <sub>urf</sub> .	G	1			✓				✓			3-4-22		✓	✓	✓										
12	SP8e8'	G	1			✓				✓					✓	✓	✓										
13	SP7eS <sub>urf</sub> .	G	1			✓				✓					✓	✓	✓										
14	SP7e8'	G	1			✓				✓					✓	✓	✓										
15	SP8eS <sub>urf</sub> .	G	1			✓				✓					✓	✓	✓										
16	SP8e8'	G	1			✓				✓					✓	✓	✓										
17	EH5eS <sub>urf</sub> .	G	1			✓				✓					✓	✓	✓										
18	EH5e1'	G	1			✓				✓					✓	✓	✓										
19	SH1eS <sub>urf</sub> .	G	1			✓				✓					✓	✓	✓										
20	SH1e1'	G	1			✓				✓					✓	✓	✓										
<p><small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>																											
Relinquished By:		Date: 3-4-22		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		<p>REMARKS:</p> <p>Please email results to pm@etechenv.com.</p>																	
Relinquished By:		Time: 15:45		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																			
Relinquished By:		Date:		Received By:																							
Relinquished By:		Time:		Received By:																							
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																			
Sampler - UPS - Bus - Other:				Cool Intact				(Initials)																			
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No																							

FORM-006  
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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Page 35 of 35

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																					
Address: P.O. Box 301				Company: Mawbourne																									
City: Lovington Hobbs State: NM Zip: 88260-88240				Attn: Robbie Runnels																									
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																									
Project #: 15507 Project Owner: Robbie Runnels				City:																									
Project Name: Red Hills West 21 Fed Com 2H Battery				State: Zip:																									
Project Location: Mawbourne Oil Company				Phone #:																									
Sampler Name: Eric Mojica				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 / GLOUT		OTHER :		DATE		TIME	
21		WH1eS <sub>urf</sub> .		G		1						✓										✓		✓		3.4.22			
22		WH1eI		G		1						✓										✓		✓					
23		WH2eS <sub>urf</sub> .		G		1						✓										✓		✓					
24		WH2eI		G		1						✓										✓		✓					
25		WH3eS <sub>urf</sub> .		G		1						✓										✓		✓					
26		WH3eI		G		1						✓										✓		✓					
27		WH4eS <sub>urf</sub> .		G		1						✓										✓		✓					
28		WH4eI		G		1						✓										✓		✓					
29		WH5eS <sub>urf</sub> .		G		1						✓										✓		✓					
30		WH5eI		G		1						✓										✓		✓					
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																													
Relinquished By: Eric Mojica				Date: 3.4.22 Time: 15:45				Received By: Jodi Benson				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:				RE:MARKS:									
Relinquished By:				Date:				Received By:																					
				Time:																									
Delivered By: (Circle One) 562 #113				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) JH				Please email results to pm@etechenv.com.																	
Sampler - UPS - Bus - Other: -1.5 2.12																													

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---

May 13, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/11/22 16:42.

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

Celey D. Keene

Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/11/2022	Sampling Date:	05/11/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: SW 1 B (H222002-01)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2022	ND	2.10	105	2.00	1.39		
Toluene*	<0.050	0.050	05/12/2022	ND	2.07	103	2.00	2.06		
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	1.95	97.7	2.00	1.31		
Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.06	101	6.00	1.97		
Total BTEX	<0.300	0.300	05/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/12/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	198	99.1	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/11/2022	Sampling Date:	05/11/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: WW 1 E (H222002-02)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2022	ND	2.10	105	2.00	1.39		
Toluene*	<0.050	0.050	05/12/2022	ND	2.07	103	2.00	2.06		
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	1.95	97.7	2.00	1.31		
Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.06	101	6.00	1.97		
Total BTEX	<0.300	0.300	05/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/12/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	198	99.1	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/11/2022	Sampling Date:	05/11/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: NW 1 A (H222002-03)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2022	ND	2.10	105	2.00	1.39		
Toluene*	<0.050	0.050	05/12/2022	ND	2.07	103	2.00	2.06		
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	1.95	97.7	2.00	1.31		
Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.06	101	6.00	1.97		
Total BTEX	<0.300	0.300	05/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/12/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8		
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	198	99.1	200	6.15		
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND						

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/11/2022	Sampling Date:	05/11/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: SW 3 B (H222002-04)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2022	ND	2.10	105	2.00	1.39		
Toluene*	<0.050	0.050	05/13/2022	ND	2.07	103	2.00	2.06		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	1.31		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.06	101	6.00	1.97		
Total BTEX	<0.300	0.300	05/13/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/12/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	198	99.1	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/11/2022	Sampling Date:	05/11/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: WW 2 A (H222002-05)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2022	ND	2.10	105	2.00	1.39		
Toluene*	<0.050	0.050	05/13/2022	ND	2.07	103	2.00	2.06		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	1.31		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.06	101	6.00	1.97		
Total BTEX	<0.300	0.300	05/13/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/12/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	198	99.1	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/11/2022	Sampling Date:	05/11/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: SW 2 B (H222002-06)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2022	ND	2.10	105	2.00	1.39		
Toluene*	<0.050	0.050	05/13/2022	ND	2.07	103	2.00	2.06		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	1.31		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.06	101	6.00	1.97		
Total BTEX	<0.300	0.300	05/13/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	05/12/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	198	99.1	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

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June 23, 2022

LANCE CRENSHAW

Etech Environmental &amp; Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/13/22 16:19.

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

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 4 A	H222057-01	Soil	13-May-22 16:16	13-May-22 16:19
EW 1 B	H222057-02	Soil	13-May-22 16:16	13-May-22 16:19
NW 3 B	H222057-03	Soil	13-May-22 16:16	13-May-22 16:19
EW 2 B	H222057-04	Soil	13-May-22 16:16	13-May-22 16:19
SW 5 A	H222057-05	Soil	13-May-22 16:16	13-May-22 16:19
WW 3 B	H222057-06	Soil	13-May-22 16:16	13-May-22 16:19
NW 2 C	H222057-07	Soil	13-May-22 16:16	13-May-22 16:19
WW 4	H222057-08	Soil	13-May-22 16:16	13-May-22 16:19
EW 3 A	H222057-09	Soil	13-May-22 16:16	13-May-22 16:19

06/23/22 - Client changed the sample ID on -08. This is the revised report and will replace the one sent on 05/18/22.

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

**SW 4 A**  
**H222057-01 (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	2051702	GM	17-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051604	JH	17-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051604	JH	17-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140 2051604 JH 17-May-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	

Surrogate: 1-Chlorooctane 90.9 % 66.9-136 2051609 MS 16-May-22 8015B

Surrogate: 1-Chlorooctadecane 100 % 59.5-142 2051609 MS 16-May-22 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

**EW 1 B**  
**H222057-02 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051604	JH	17-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051604	JH	17-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2051604	JH	17-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	

Surrogate: 1-Chlorooctane			96.4 %	66.9-136		2051609	MS	16-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			106 %	59.5-142		2051609	MS	16-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

**NW 3 B**  
**H222057-03 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051604	JH	17-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051604	JH	17-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2051604	JH	17-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	

Surrogate: 1-Chlorooctane			85.7 %		66.9-136	2051609	MS	16-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			94.5 %		59.5-142	2051609	MS	16-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

**EW 2 B**  
**H222057-04 (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	2051702	GM	17-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051604	JH	17-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051604	JH	17-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2051604	JH	17-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	

Surrogate: 1-Chlorooctane			89.1 %	66.9-136		2051609	MS	16-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			98.3 %	59.5-142		2051609	MS	16-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

**SW 5 A**  
**H222057-05 (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>208</b>		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2051630	MS\	17-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2051630	MS\	17-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	69.9-140	2051630	MS\	17-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2051609	MS	16-May-22	8015B	

Surrogate: 1-Chlorooctane	89.1 %	66.9-136	2051609	MS	16-May-22	8015B	
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Surrogate: 1-Chlorooctadecane	98.4 %	59.5-142	2051609	MS	16-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

**WW 3 B**  
**H222057-06 (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>16.0</b>		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051630	MS\	17-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051630	MS\	17-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		101 %		69.9-140		2051630	MS\	17-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	

Surrogate: 1-Chlorooctane		86.4 %		66.9-136		2051609	MS	16-May-22	8015B	
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Surrogate: 1-Chlorooctadecane		95.5 %		59.5-142		2051609	MS	16-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

**NW 2 C**  
**H222057-07 (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>48.0</b>		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2051630	MS\	17-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2051630	MS\	17-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	101 %	69.9-140	2051630	MS\	17-May-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2051609	MS	16-May-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2051609	MS	16-May-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2051609	MS	16-May-22	8015B

Surrogate: 1-Chlorooctane	87.2 %	66.9-136	2051609	MS	16-May-22	8015B
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Surrogate: 1-Chlorooctadecane	96.3 %	59.5-142	2051609	MS	16-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

**WW 4****H222057-08 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051630	MS\	17-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051630	MS\	17-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2051630	MS\	17-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	

Surrogate: 1-Chlorooctane			85.4 %	66.9-136		2051609	MS	16-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			95.3 %	59.5-142		2051609	MS	16-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

**EW 3 A**  
**H222057-09 (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>16.0</b>		16.0	mg/kg	4	2051720	GM	17-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051630	MS\	17-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051630	MS\	17-May-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %		69.9-140	2051630	MS\	17-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.3 %		66.9-136	2051609	MS	16-May-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.6 %		59.5-142	2051609	MS	16-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2051702 - 1:4 DI Water****Blank (2051702-BLK1)**

Prepared &amp; Analyzed: 17-May-22

Chloride	ND	16.0	mg/kg						
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**LCS (2051702-BS1)**

Prepared &amp; Analyzed: 17-May-22

Chloride	416	16.0	mg/kg	400	104	80-120			
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**LCS Dup (2051702-BSD1)**

Prepared &amp; Analyzed: 17-May-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	
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**Batch 2051720 - 1:4 DI Water****Blank (2051720-BLK1)**

Prepared &amp; Analyzed: 17-May-22

Chloride	ND	16.0	mg/kg						
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**LCS (2051720-BS1)**

Prepared &amp; Analyzed: 17-May-22

Chloride	416	16.0	mg/kg	400	104	80-120			
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**LCS Dup (2051720-BSD1)**

Prepared &amp; Analyzed: 17-May-22

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20	
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**Analytical Results For:**

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

Project: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

**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 2051604 - Volatiles****Blank (2051604-BLK1)**

Prepared: 16-May-22 Analyzed: 17-May-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)	0.0517		mg/kg	0.0500		103	69.9-140			

**LCS (2051604-BS1)**

Prepared: 16-May-22 Analyzed: 17-May-22

Benzene	1.97	0.050	mg/kg	2.00		98.6	83.4-122			
Toluene	2.00	0.050	mg/kg	2.00		100	84.2-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.8	84.2-121			
m,p-Xylene	4.08	0.100	mg/kg	4.00		102	89.9-126			
o-Xylene	2.01	0.050	mg/kg	2.00		101	84.3-123			
Total Xylenes	6.09	0.150	mg/kg	6.00		101	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0525		mg/kg	0.0500		105	69.9-140			

**LCS Dup (2051604-BSD1)**

Prepared: 16-May-22 Analyzed: 17-May-22

Benzene	2.04	0.050	mg/kg	2.00		102	83.4-122	3.29	12.6	
Toluene	2.04	0.050	mg/kg	2.00		102	84.2-126	2.20	13.3	
Ethylbenzene	2.05	0.050	mg/kg	2.00		102	84.2-121	2.67	13.9	
m,p-Xylene	4.16	0.100	mg/kg	4.00		104	89.9-126	2.13	13.6	
o-Xylene	2.05	0.050	mg/kg	2.00		103	84.3-123	2.01	14.1	
Total Xylenes	6.21	0.150	mg/kg	6.00		104	89.1-124	2.09	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0527		mg/kg	0.0500		105	69.9-140			

**Batch 2051630 - Volatiles****Blank (2051630-BLK1)**

Prepared: 16-May-22 Analyzed: 17-May-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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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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

**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 2051630 - Volatiles****Blank (2051630-BLK1)**

Prepared: 16-May-22 Analyzed: 17-May-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	69.9-140			

**LCS (2051630-BS1)**

Prepared: 16-May-22 Analyzed: 17-May-22

Benzene	1.97	0.050	mg/kg	2.00		98.6	83.4-122			
Toluene	1.94	0.050	mg/kg	2.00		97.0	84.2-126			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.4	84.2-121			
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	89.9-126			
o-Xylene	1.88	0.050	mg/kg	2.00		93.9	84.3-123			
Total Xylenes	5.89	0.150	mg/kg	6.00		98.1	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.1	69.9-140			

**LCS Dup (2051630-BSD1)**

Prepared: 16-May-22 Analyzed: 17-May-22

Benzene	2.13	0.050	mg/kg	2.00		107	83.4-122	7.84	12.6	
Toluene	2.10	0.050	mg/kg	2.00		105	84.2-126	8.15	13.3	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	84.2-121	7.74	13.9	
m,p-Xylene	4.29	0.100	mg/kg	4.00		107	89.9-126	6.83	13.6	
o-Xylene	2.03	0.050	mg/kg	2.00		102	84.3-123	8.04	14.1	
Total Xylenes	6.33	0.150	mg/kg	6.00		105	89.1-124	7.22	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.5	69.9-140			

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**Analytical Results For:**

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

Project: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:25

**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 2051609 - General Prep - Organics****Blank (2051609-BLK1)**

Prepared &amp; Analyzed: 16-May-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	39.9		mg/kg	50.0		79.9	66.9-136			
Surrogate: 1-Chlorooctadecane	44.2		mg/kg	50.0		88.4	59.5-142			

**LCS (2051609-BS1)**

Prepared &amp; Analyzed: 16-May-22

GRO C6-C10	190	10.0	mg/kg	200		95.0	78.5-128			
DRO >C10-C28	191	10.0	mg/kg	200		95.3	75.8-135			
Total TPH C6-C28	380	10.0	mg/kg	400		95.1	81.5-127			
Surrogate: 1-Chlorooctane	42.2		mg/kg	50.0		84.4	66.9-136			
Surrogate: 1-Chlorooctadecane	49.1		mg/kg	50.0		98.1	59.5-142			

**LCS Dup (2051609-BS1)**

Prepared &amp; Analyzed: 16-May-22

GRO C6-C10	193	10.0	mg/kg	200		96.4	78.5-128	1.45	21.4	
DRO >C10-C28	200	10.0	mg/kg	200		100	75.8-135	5.06	17.9	
Total TPH C6-C28	393	10.0	mg/kg	400		98.3	81.5-127	3.27	17.6	
Surrogate: 1-Chlorooctane	43.1		mg/kg	50.0		86.3	66.9-136			
Surrogate: 1-Chlorooctadecane	48.9		mg/kg	50.0		97.8	59.5-142			

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																			
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																			
Address: P.O. Box 301				Company: Etech																																							
City: Lovington State: NM Zip: 88260				Attn:																																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																																							
Project #: 15507 Project Owner: McWhorter oil				City: Hobbs																																							
Project Name: Red Hill 21 Fed Cont 24				State: NM Zip:																																							
Project Location: Lea				Phone #:																																							
Sampler Name: Dominick Casarez				Fax #:																																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																																	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE		ICE / COOL		OTHER :		DATE		TIME															
H222057																																											
1		SW4A																								5/13		4/16															
2		EW1B																																									
3		NW3B																																									
4		EW2B																																									
5		SW5A																																									
6		WW3B																																									
7		NW2C																																									
8		WW2B WW4*																																									
9		EW3A																																									
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																											
Relinquished By: [Signature]				Date: 5-13-22		Time: 1619		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:		REMARKS: *Sample 10 changed as per Ben 6/22/22 ch																							
Relinquished By:				Date:		Time:		Received By:																																			
Delivered By: (Circle One) 28.9°C - 0.5°C				Sampler - UPS - Bus - Other: 28.4°C #113		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				CHECKED BY: (Initials) [Signature]				Please email results to pm@etechenv.com.																													



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

May 19, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/17/22 16:20.

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/17/2022	Sampling Date:	05/17/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: EW 4 (H222100-01)**

BTX 8021B			mg/kg		Analyzed By: MS\				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTX	<0.300	0.300	05/18/2022	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/18/2022	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 137 % 59.5-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/17/2022	Sampling Date:	05/17/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: WW 6 (H222100-02)**

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	3.84		
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85		
Total BTEX	<0.300	0.300	05/18/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/17/2022	Sampling Date:	05/17/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: WW 7 (H222100-03)**

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	3.84		
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85		
Total BTEX	<0.300	0.300	05/18/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/17/2022	Sampling Date:	05/17/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: WW 5 (H222100-04)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2022	ND	2.01	100	2.00	5.45		
Toluene*	<0.050	0.050	05/19/2022	ND	1.97	98.4	2.00	5.82		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.95	97.4	2.00	4.99		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.03	100	6.00	5.26		
Total BTEx	<0.300	0.300	05/19/2022	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	05/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/17/2022	Sampling Date:	05/17/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: EW 6 A (H222100-05)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2022	ND	2.01	100	2.00	5.45		
Toluene*	<0.050	0.050	05/19/2022	ND	1.97	98.4	2.00	5.82		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.95	97.4	2.00	4.99		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.03	100	6.00	5.26		
Total BTEx	<0.300	0.300	05/19/2022	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	112	16.0	05/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/17/2022	Sampling Date:	05/17/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: NW 4 (H222100-06)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2022	ND	2.01	100	2.00	5.45		
Toluene*	<0.050	0.050	05/19/2022	ND	1.97	98.4	2.00	5.82		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.95	97.4	2.00	4.99		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.03	100	6.00	5.26		
Total BTX	<0.300	0.300	05/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	144	16.0	05/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 98.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/17/2022	Sampling Date:	05/17/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: EW 5 (H222100-07)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2022	ND	2.01	100	2.00	5.45		
Toluene*	<0.050	0.050	05/19/2022	ND	1.97	98.4	2.00	5.82		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.95	97.4	2.00	4.99		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.03	100	6.00	5.26		
Total BTEX	<0.300	0.300	05/19/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

Page 10 of 10

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																	
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																	
Address: P.O. Box 301				Company: Mewbourn Oil Co																																					
City: Lovington State: NM Zip: 88260				Attn: Robbie Runnels																																					
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: 4801 Busn Park																																					
Project #: 15507 Project Owner: Mewbourn				City: Hobbs																																					
Project Name: Red Hills 21 Fed COM 2H				State: NM Zip:																																					
Project Location: Rural Jail				Phone #:																																					
Sampler Name: Dominic Casarez				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
H222100																																									
1		EW4																								5/7		4:00													
2		WW6																																							
3		WW7																																							
4		WW5																																							
5		EW6A																																							
6		WW4																																							
7		EW5																																							
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																									
Relinquished By: Dominic Casarez				Date: 5/7/22				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																									
				Time: 11:20								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																									
Relinquished By:				Date:				Received By:				REMARKS:																													
				Time:																																					
Delivered By: (Circle One)				35.4°C				C-0.5°C				Sample Condition				CHECKED BY:																									
Sampler - UPS - Bus - Other:				34.9°C #113				Cool Intact				(Initials)																													
								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				[Signature]																													

FORM-006  
Revision 1.0

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



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

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May 27, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/20/22 16:08.

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/20/2022	Sampling Date:	05/20/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: NW 5 A (H222174-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2022	ND	2.01	101	2.00	0.885	
Toluene*	<0.050	0.050	05/26/2022	ND	2.08	104	2.00	2.13	
Ethylbenzene*	<0.050	0.050	05/26/2022	ND	1.99	99.6	2.00	1.33	
Total Xylenes*	<0.150	0.150	05/26/2022	ND	5.95	99.2	6.00	1.20	
Total BTX	<0.300	0.300	05/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	05/26/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	197	98.6	200	6.84	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	187	93.5	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 139 % 66.9-136

Surrogate: 1-Chlorooctadecane 138 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/20/2022	Sampling Date:	05/20/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: WW 8 B (H222174-02)**

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	05/26/2022	ND	2.01	101	2.00	0.885		
Toluene*	<0.050	0.050	05/26/2022	ND	2.08	104	2.00	2.13		
Ethylbenzene*	<0.050	0.050	05/26/2022	ND	1.99	99.6	2.00	1.33		
Total Xylenes*	<0.150	0.150	05/26/2022	ND	5.95	99.2	6.00	1.20		
Total BTEX	<0.300	0.300	05/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	64.0	16.0	05/26/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	197	98.6	200	6.84	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	187	93.5	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 138 % 66.9-136

Surrogate: 1-Chlorooctadecane 138 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/20/2022	Sampling Date:	05/20/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: SW 7 A (H222174-03)**

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	05/26/2022	ND	2.01	101	2.00	0.885		
Toluene*	<0.050	0.050	05/26/2022	ND	2.08	104	2.00	2.13		
Ethylbenzene*	<0.050	0.050	05/26/2022	ND	1.99	99.6	2.00	1.33		
Total Xylenes*	<0.150	0.150	05/26/2022	ND	5.95	99.2	6.00	1.20		
Total BTEx	<0.300	0.300	05/26/2022	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	32.0	16.0	05/26/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	189	94.6	200	7.35	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	197	98.5	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 98.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/20/2022	Sampling Date:	05/20/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: WW 9 A (H222174-04)**

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	05/27/2022	ND	2.01	101	2.00	0.885		
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	2.13		
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.99	99.6	2.00	1.33		
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.95	99.2	6.00	1.20		
Total BTEx	<0.300	0.300	05/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	208	16.0	05/26/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	189	94.6	200	7.35	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	197	98.5	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/20/2022	Sampling Date:	05/20/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: EW 7 B (H222174-05)**

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	05/27/2022	ND	2.01	101	2.00	0.885		
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	2.13		
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.99	99.6	2.00	1.33		
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.95	99.2	6.00	1.20		
Total BTEX	<0.300	0.300	05/27/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/26/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	189	94.6	200	7.35	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	197	98.5	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/20/2022	Sampling Date:	05/20/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: SW 6 A (H222174-06)**

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	05/27/2022	ND	2.01	101	2.00	0.885		
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	2.13		
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.99	99.6	2.00	1.33		
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.95	99.2	6.00	1.20		
Total BTEx	<0.300	0.300	05/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	05/26/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	189	94.6	200	7.35	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	197	98.5	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/20/2022	Sampling Date:	05/20/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: EW 8 B (H222174-07)**

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	05/27/2022	ND	2.01	101	2.00	0.885		
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	2.13		
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.99	99.6	2.00	1.33		
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.95	99.2	6.00	1.20		
Total BTEX	<0.300	0.300	05/27/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/26/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	189	94.6	200	7.35	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	197	98.5	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 10 of 10

Released to Imaging: 6/17/2024 12:53:26 PM



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

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June 23, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/26/22 16:38.

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

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  
2617 W MARLAND  
HOBBS NM, 88240

Project: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WW 13 A	H222263-01	Soil	26-May-22 00:00	26-May-22 16:38
EW 11 A	H222263-02	Soil	26-May-22 00:00	26-May-22 16:38
WW 10	H222263-03	Soil	26-May-22 00:00	26-May-22 16:38
EW 12 A	H222263-04	Soil	26-May-22 00:00	26-May-22 16:38
WW 12 A	H222263-05	Soil	26-May-22 00:00	26-May-22 16:38
SW 8 A	H222263-06	Soil	26-May-22 00:00	26-May-22 16:38
WW 15	H222263-07	Soil	26-May-22 00:00	26-May-22 16:38
SW 9 B	H222263-08	Soil	26-May-22 00:00	26-May-22 16:38
WW 11 B	H222263-09	Soil	26-May-22 00:00	26-May-22 16:38
SW 10	H222263-10	Soil	26-May-22 00:00	26-May-22 16:38
EW 9 A	H222263-11	Soil	26-May-22 16:30	26-May-22 16:38
EW 10 B	H222263-12	Soil	26-May-22 16:30	26-May-22 16:38
NW 6	H222263-13	Soil	26-May-22 16:30	26-May-22 16:38
WW 14	H222263-14	Soil	26-May-22 16:30	26-May-22 16:38
SW 11 C	H222263-15	Soil	26-May-22 16:30	26-May-22 16:38

06/23/22 - Client changed the sample ID on -13. This is the revised report and will replace the one sent on 06/03/22.

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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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**WW 13 A**  
**H222263-01 (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>528</b>		16.0	mg/kg	4	2053122	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2053110	CK	31-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	97.8 %	69.9-140	2053110	CK	31-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B

Surrogate: 1-Chlorooctane	140 %	66.9-136	2052714	MS	28-May-22	8015B
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Surrogate: 1-Chlorooctadecane	160 %	59.5-142	2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**EW 11 A**  
**H222263-02 (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	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
<b>Toluene*</b>	<b>0.123</b>		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.8 %		69.9-140	2053110	CK	31-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			120 %		66.9-136	2052714	MS	28-May-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			137 %		59.5-142	2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**WW 10**  
**H222263-03 (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>128</b>		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
<b>Toluene*</b>	<b>0.122</b>	0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2053110	CK	31-May-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		101 %		69.9-140	2053110	CK	31-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>		122 %		66.9-136	2052714	MS	28-May-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>		138 %		59.5-142	2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**EW 12 A**  
**H222263-04 (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>208</b>		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
<b>Toluene*</b>	<b>0.124</b>		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.6 %		69.9-140	2053110	CK	31-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			122 %		66.9-136	2052714	MS	28-May-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			138 %		59.5-142	2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**WW 12 A**  
**H222263-05 (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>16.0</b>		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		2053110	CK	31-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			120 %	66.9-136		2052714	MS	28-May-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			135 %	59.5-142		2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**SW 8 A**  
**H222263-06 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
<b>Toluene*</b>	<b>0.098</b>		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2053110	CK	31-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	

Surrogate: 1-Chlorooctane			116 %	66.9-136		2052714	MS	28-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			131 %	59.5-142		2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**WW 15**  
**H222263-07 (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>512</b>		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2053110	CK	31-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.2 %	69.9-140	2053110	CK	31-May-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B

Surrogate: 1-Chlorooctane	119 %	66.9-136	2052714	MS	28-May-22	8015B
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Surrogate: 1-Chlorooctadecane	134 %	59.5-142	2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**SW 9 B**  
**H222263-08 (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>32.0</b>		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	69.9-140		2053110	CK	31-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			156 %	66.9-136		2052714	MS	28-May-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			175 %	59.5-142		2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**WW 11 B**  
**H222263-09 (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	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2053110	CK	31-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	

Surrogate: 1-Chlorooctane			120 %	66.9-136		2052714	MS	28-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			134 %	59.5-142		2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**SW 10**  
**H222263-10 (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>208</b>		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2053110	CK	31-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	102 %	69.9-140	2053110	CK	31-May-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B

Surrogate: 1-Chlorooctane	121 %	66.9-136	2052714	MS	28-May-22	8015B
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Surrogate: 1-Chlorooctadecane	137 %	59.5-142	2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**EW 9 A**  
**H222263-11 (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	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.0 %	69.9-140		2053110	CK	31-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	

Surrogate: 1-Chlorooctane			117 %	66.9-136		2052714	MS	28-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			132 %	59.5-142		2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**EW 10 B**  
**H222263-12 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2053111	CK	01-Jun-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	69.9-140		2053111	CK	01-Jun-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	

Surrogate: 1-Chlorooctane			121 %	66.9-136		2052714	MS	28-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			137 %	59.5-142		2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**NW 6**  
**H222263-13 (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>112</b>		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2053111	CK	01-Jun-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	101 %	69.9-140	2053111	CK	01-Jun-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B

Surrogate: 1-Chlorooctane	112 %	66.9-136	2052714	MS	28-May-22	8015B
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Surrogate: 1-Chlorooctadecane	127 %	59.5-142	2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**WW 14**  
**H222263-14 (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>208</b>		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2053111	CK	01-Jun-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	97.5 %	69.9-140	2053111	CK	01-Jun-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2052714	MS	28-May-22	8015B

Surrogate: 1-Chlorooctane	121 %	66.9-136	2052714	MS	28-May-22	8015B
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Surrogate: 1-Chlorooctadecane	138 %	59.5-142	2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**SW 11 C**  
**H222263-15 (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>192</b>		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
<b>Toluene*</b>	<b>0.067</b>		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2053111	CK	01-Jun-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %		69.9-140	2053111	CK	01-Jun-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			121 %		66.9-136	2052714	MS	28-May-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			137 %		59.5-142	2052714	MS	28-May-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2053122 - 1:4 DI Water****Blank (2053122-BLK1)**

Prepared &amp; Analyzed: 31-May-22

Chloride	ND	16.0	mg/kg						
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**LCS (2053122-BS1)**

Prepared &amp; Analyzed: 31-May-22

Chloride	416	16.0	mg/kg	400	104	80-120			
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**LCS Dup (2053122-BSD1)**

Prepared &amp; Analyzed: 31-May-22

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20	
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**Batch 2053123 - 1:4 DI Water****Blank (2053123-BLK1)**

Prepared &amp; Analyzed: 31-May-22

Chloride	ND	16.0	mg/kg						
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**LCS (2053123-BS1)**

Prepared &amp; Analyzed: 31-May-22

Chloride	416	16.0	mg/kg	400	104	80-120			
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**LCS Dup (2053123-BSD1)**

Prepared &amp; Analyzed: 31-May-22

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**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 2053110 - Volatiles****Blank (2053110-BLK1)**

Prepared &amp; Analyzed: 31-May-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)	0.0503		mg/kg	0.0500		101	69.9-140			

**LCS (2053110-BS1)**

Prepared &amp; Analyzed: 31-May-22

Benzene	1.95	0.050	mg/kg	2.00		97.3	83.4-122			
Toluene	2.06	0.050	mg/kg	2.00		103	84.2-126			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.5	84.2-121			
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	89.9-126			
o-Xylene	1.96	0.050	mg/kg	2.00		97.9	84.3-123			
Total Xylenes	5.97	0.150	mg/kg	6.00		99.5	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0534		mg/kg	0.0500		107	69.9-140			

**LCS Dup (2053110-BSD1)**

Prepared &amp; Analyzed: 31-May-22

Benzene	2.05	0.050	mg/kg	2.00		102	83.4-122	5.00	12.6	
Toluene	2.13	0.050	mg/kg	2.00		106	84.2-126	3.20	13.3	
Ethylbenzene	2.03	0.050	mg/kg	2.00		102	84.2-121	2.12	13.9	
m,p-Xylene	4.08	0.100	mg/kg	4.00		102	89.9-126	1.66	13.6	
o-Xylene	2.00	0.050	mg/kg	2.00		100	84.3-123	2.10	14.1	
Total Xylenes	6.08	0.150	mg/kg	6.00		101	89.1-124	1.80	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	69.9-140			

**Batch 2053111 - Volatiles****Blank (2053111-BLK1)**

Prepared: 31-May-22 Analyzed: 01-Jun-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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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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

**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 2053111 - Volatiles****Blank (2053111-BLK1)**

Prepared: 31-May-22 Analyzed: 01-Jun-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	69.9-140			

**LCS (2053111-BS1)**

Prepared: 31-May-22 Analyzed: 01-Jun-22

Benzene	1.96	0.050	mg/kg	2.00		98.2	83.4-122			
Toluene	1.98	0.050	mg/kg	2.00		99.2	84.2-126			
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.6	84.2-121			
m,p-Xylene	3.87	0.100	mg/kg	4.00		96.8	89.9-126			
o-Xylene	1.89	0.050	mg/kg	2.00		94.7	84.3-123			
Total Xylenes	5.76	0.150	mg/kg	6.00		96.1	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	69.9-140			

**LCS Dup (2053111-BSD1)**

Prepared: 31-May-22 Analyzed: 01-Jun-22

Benzene	2.00	0.050	mg/kg	2.00		99.8	83.4-122	1.68	12.6	
Toluene	2.03	0.050	mg/kg	2.00		101	84.2-126	2.08	13.3	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	84.2-121	2.01	13.9	
m,p-Xylene	3.98	0.100	mg/kg	4.00		99.4	89.9-126	2.73	13.6	
o-Xylene	1.95	0.050	mg/kg	2.00		97.4	84.3-123	2.91	14.1	
Total Xylenes	5.93	0.150	mg/kg	6.00		98.8	89.1-124	2.79	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	69.9-140			

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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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 13:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2052714 - General Prep - Organics****Blank (2052714-BLK1)**

Prepared: 27-May-22 Analyzed: 28-May-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	60.1		mg/kg	50.0		120	66.9-136		
Surrogate: 1-Chlorooctadecane	68.0		mg/kg	50.0		136	59.5-142		

**LCS (2052714-BS1)**

Prepared &amp; Analyzed: 27-May-22

GRO C6-C10	190	10.0	mg/kg	200		94.9	78.5-128		
DRO >C10-C28	193	10.0	mg/kg	200		96.5	75.8-135		
Total TPH C6-C28	383	10.0	mg/kg	400		95.7	81.5-127		
Surrogate: 1-Chlorooctane	64.4		mg/kg	50.0		129	66.9-136		
Surrogate: 1-Chlorooctadecane	73.5		mg/kg	50.0		147	59.5-142		

**LCS Dup (2052714-BS1)**

Prepared &amp; Analyzed: 27-May-22

GRO C6-C10	188	10.0	mg/kg	200		94.1	78.5-128	0.799	21.4
DRO >C10-C28	179	10.0	mg/kg	200		89.7	75.8-135	7.31	17.9
Total TPH C6-C28	368	10.0	mg/kg	400		91.9	81.5-127	4.03	17.6
Surrogate: 1-Chlorooctane	67.2		mg/kg	50.0		134	66.9-136		
Surrogate: 1-Chlorooctadecane	72.6		mg/kg	50.0		145	59.5-142		

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Celey D. Keene, Lab Director/Quality Manager



---

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager

**• CARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager: Kane Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: P.O. Box 301				Company: Mewbourne oil																									
City: Lovington State: NM Zip: 88260				Attn: Robbie Runnels																									
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: 4801 Busin Park Blvd																									
Project #: Project Owner:				City: Hobbs																									
Project Name: Red Hills 21 Fed Com 2 It				State: NM Zip:																									
Project Location: Rural Jct N.M.				Phone #:																									
Sampler Name: Dominic Cassare				Fax #:																									
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME	
H222063																													
1		WW 13 A																											
2		EW 11 A																											
3		WW 10																											
4		EW 12 A																											
5		WW 12 A																											
6		SW 8 A																											
7		WW 15																											
8		SW 9 B																											
9		WW 11 B																											
10		SW 10																											
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																													
Relinquished By: Dom CAZ				Date: 5/26		Received By: S Rod Riquemey				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:															
				Time: 1038						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:															
Relinquished By:				Date:		Received By:				REMARKS:																			
				Time:																									
Delivered By: (Circle One) 2422 JC-O.52				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.																	
Sampler - UPS - Bus - Other: 2382 #113				Cool Intact				(Initials)																					
				<input type="checkbox"/> Yes <input type="checkbox"/> No				SJR																					

FORM-006  
Revision 1.0

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



**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 24 of 24

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: Lane Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																							
Address: P.O. Box 301				Company: Mewbourne oil																											
City: Lovington State: NM Zip: 88260				Attn: Robbie Runnels																											
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: 4801 Bussia Park Blvd																											
Project #: Project Owner:				City: Hobbs																											
Project Name: Red Hills 21 Fed Com 2H				State: NM Zip:																											
Project Location: Rural Jct NM				Phone #:																											
Sampler Name: Dominic Casarez				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.				Sample I.D.																											





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

June 01, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/27/22 15:46.

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 4 @ SURFACE (H222278-01)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39		
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83		
Total BTEX	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	316	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	117	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.6 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 4 @ 1 (H222278-02)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39		
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83		
Total BTEx	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/31/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	75.8	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	16.6	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 81.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 4 @ 2 (H222278-03)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39		
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83		
Total BTEX	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 4 @ 3 (H222278-04)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39		
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83		
Total BTEX	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39		
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46		
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND						

Surrogate: 1-Chlorooctane 85.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 4 @ 4 (H222278-05)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39		
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83		
Total BTEX	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 5 @ SURFACE (H222278-06)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39		
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83		
Total BTEx	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 72.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 5 @ 1 (H222278-07)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39		
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83		
Total BTEX	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 75.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 5 @ 2 (H222278-08)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39		
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83		
Total BTEX	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	06/01/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 5 @ 3 (H222278-09)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39		
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83		
Total BTEX	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 5 @ 4 (H222278-10)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39	
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83	
Total BTEX	<0.300	0.300	05/31/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/01/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 85.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 5 @ 6 (H222278-11)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39		
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83		
Total BTEX	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	06/01/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 75.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 5 @ 8 (H222278-12)**

BTEX 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58		
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71		
Total BTEX	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 72.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 72.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 5 @ 10 (H222278-13)**

BTEx 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58		
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71		
Total BTEx	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.3 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 5 @ 12 (H222278-14)**

BTEx 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEx	<0.300	0.300	05/31/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 74.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 5 @ 14 (H222278-15)**

BTEx 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEx	<0.300	0.300	05/31/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/01/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 79.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.0 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 1 @ SURFACE (H222278-16)**

BTEx 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58		
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71		
Total BTEx	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1700	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.7 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 1 @ 4 (H222278-17)**

BTEx 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEx	<0.300	0.300	05/31/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	06/01/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 1 @ 6 (H222278-18)**

BTEx 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58		
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71		
Total BTEx	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.7 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 1 @ 8 (H222278-19)**

BTEx 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58		
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71		
Total BTEx	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.4 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 1 @ 9 (H222278-20)**

BTEX 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58		
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71		
Total BTEX	<0.300	0.300	05/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.9 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 2 @ SURFACE (H222278-21)**

BTEx 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58		
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71		
Total BTEX	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22		
DRO >C10-C28*	11.3	10.0	05/31/2022	ND	181	90.3	200	5.98		
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND						

Surrogate: 1-Chlorooctane 74.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.9 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 2 @ 1 (H222278-22)**

BTEx 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58		
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71		
Total BTEx	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.8 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 2 @ 2 (H222278-23)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/01/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 94.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.7 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 2 @ 3 (H222278-24)**

BTEX 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58		
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66		
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16		
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71		
Total BTEX	<0.300	0.300	05/31/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/01/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.8 % 59.5-142

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 3 @ SURFACE (H222278-25)**

BTEx 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEx	<0.300	0.300	05/31/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19300	16.0	06/01/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.3 % 59.5-142

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Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 3 @ 3 (H222278-26)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/01/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.5 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 3 @ 4 (H222278-27)**

BTEx 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.23	104	6.00	2.71	
Total BTEx	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/01/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 6 @ SURFACE (H222278-28)**

BTEx 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.23	104	6.00	2.71	
Total BTEx	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	06/01/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 6 @ 4 (H222278-29)**

BTEx 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	3.58		
Toluene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	2.66		
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.01	101	2.00	3.16		
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.23	104	6.00	2.71		
Total BTEX	<0.300	0.300	06/01/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9520	16.0	06/01/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22		
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98		
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND						

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 6 @ 6 (H222278-30)**

BTEX 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	3.58		
Toluene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	2.66		
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.01	101	2.00	3.16		
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.23	104	6.00	2.71		
Total BTEX	<0.300	0.300	06/01/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10300	16.0	06/01/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.0 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 6 @ 8 (H222278-31)**

BTEx 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	06/01/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.5 % 59.5-142

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 6 @ 12 (H222278-32)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	1.97	98.6	2.00	1.11	
Toluene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.88	93.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.88	98.0	6.00	0.922	
Total BTEX	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1710	16.0	06/01/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.3 % 59.5-142

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Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 6 @ 14 (H222278-33)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2022	ND	1.97	98.6	2.00	1.11		
Toluene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	1.27		
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.88	93.9	2.00	1.42		
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.88	98.0	6.00	0.922		
Total BTEx	<0.300	0.300	06/01/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	06/01/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 90.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.1 % 59.5-142

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 6 @ 16 (H222278-34)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	1.97	98.6	2.00	1.11	
Toluene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.88	93.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.88	98.0	6.00	0.922	
Total BTEX	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/01/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 6 @ 18 (H222278-35)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2022	ND	1.97	98.6	2.00	1.11		
Toluene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	1.27		
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.88	93.9	2.00	1.42		
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.88	98.0	6.00	0.922		
Total BTEx	<0.300	0.300	06/01/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/01/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 6 @ 20 (H222278-36)**

BTEx 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	1.97	98.6	2.00	1.11	
Toluene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.88	93.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.88	98.0	6.00	0.922	
Total BTEX	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/01/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	183	91.6	200	8.60	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.5	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/01/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H BATTI	Sampling Condition:	** (See Notes)
Project Number:	15507	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: DFS 6 @ 22 (H222278-37)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	1.97	98.6	2.00	1.11	
Toluene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.88	93.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.88	98.0	6.00	0.922	
Total BTEX	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/01/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	183	91.6	200	8.60	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.5	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

Page 40 of 43

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																																																																																																																									
<b>Project Manager:</b> <u>Eric Crenshaw</u>				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																																																																																																																									
<b>Address:</b> P.O. Box 301				<b>Company:</b> <u>Newbourne</u>																																																																																																																																													
<b>City:</b> Lovington <b>State:</b> NM <b>Zip:</b> 88260				<b>Attn:</b> <u>Robbie Runnels</u>																																																																																																																																													
<b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429				<b>Address:</b> <u>4801 Basin Park Blvd</u>																																																																																																																																													
<b>Project #:</b> <u>15507</u> <b>Project Owner:</b>				<b>City:</b> <u>Hobbs</u>																																																																																																																																													
<b>Project Name:</b> <u>Red Hills 21 Fed Com 2H</u>				<b>State:</b> <u>NM</u> <b>Zip:</b>																																																																																																																																													
<b>Project Location:</b> <u>Red Hills 21 Fed Com 2H Rom Jal</u>				<b>Phone #:</b>																																																																																																																																													
<b>Sampler Name:</b> <u>Dominic Cacarch</u>				<b>Fax #:</b>																																																																																																																																													
<div style="display: flex;"> <div style="flex: 1;"> <b>FOR LAB USE ONLY</b>   <b>Lab I.D.</b> <u>H222278</u> </div> <div style="flex: 2;"> <b>Sample I.D.</b> </div> <div style="flex: 1;"> <b>(G)RAB OR (C)OMP.</b>  <b># CONTAINERS</b> </div> <div style="flex: 2;"> <table border="1"> <thead> <tr> <th colspan="5">MATRIX</th> <th colspan="2">PRESERV.</th> <th colspan="2">SAMPLING</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER:</th> <th>ACID/BASE:</th> <th>ICE / COOL</th> <th>OTHER:</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 27</td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 27</td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>6 27</td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 27</td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 27</td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 27</td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 27</td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 27</td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 27</td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5 27</td><td></td> </tr> </tbody> </table> </div> </div>																MATRIX					PRESERV.		SAMPLING		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										5 27											5 27											6 27											5 27											5 27											5 27											5 27											5 27											5 27											5 27	
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<b>Relinquished By:</b> <u>[Signature]</u>				<b>Date:</b> <u>5-27-22</u> <b>Time:</b> <u>1546</u>				<b>Received By:</b> <u>[Signature]</u>				<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>																																																																																																																																					
<b>Relinquished By:</b>				<b>Date:</b> <b>Time:</b>				<b>Received By:</b>				<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b>																																																																																																																																					
<b>Delivered By: (Circle One)</b> <u>22.0°C - 0.5%</u> <b>Sampler - UPS - Bus - Other:</b> <u>21.5% #113</u>				<b>Sample Condition</b> <b>Cool Intact:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<b>CHECKED BY:</b> <u>[Signature]</u>				<b>REMARKS:</b>																																																																																																																																					
Please email results to pm@etechenv.com.																																																																																																																																																	

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 41 of 43

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: P.O. Box 301				Company: New Boine oil															
City: Lovington		State: NM		Zip: 88260		Attn: Robbie Annels													
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: 4801 Basin Park Blvd		City: Hobbs													
Project #: 15507		Project Owner:		State: NM		Zip:													
Project Name: Red Hills 21 Fed Com 2H				Phone #:															
Project Location: Rural Jal				Fax #:															
Sampler Name: Dominic Casarez																			
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					
1222278																			
11	DFS 5@6												5/27						
12	DFS 6@8																		
13	DFS 5@10																		
14	DFS 5@12																		
15	DFS 5@14																		
16	DFS 1@ SURF																		
17	DFS 1@ 4																		
18	DFS 1@ 6																		
19	DFS 1@ 8																		
20	DFS 1@ 9																		
<small>PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																			
Relinquished By:		Date:		Received By:				Phone Result:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:							
		5/27						Fax Result:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:							
Time: 1546								REMARKS:											
Relinquished By:		Date:		Received By:				Please email results to pm@etechenv.com.											
		Time:																	
Delivered By: (Circle One)		22.0°C - 0.5°C		Sample Condition				CHECKED BY:											
Sampler - UPS - Bus - Other:		21.5°C #113		Cool Intact				(Initials)											
				<input type="checkbox"/> Yes <input type="checkbox"/> No															
				<input type="checkbox"/> No <input type="checkbox"/> No															

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

Page 42 of 43

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc. <b>Project Manager:</b> <u>Lanc Crenshaw</u> <b>Address:</b> P.O. Box 301 <b>City:</b> Lovington <b>State:</b> NM <b>Zip:</b> 88260 <b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429 <b>Project #:</b> <u>15507</u> <b>Project Owner:</b> <b>Project Name:</b> <u>Red Hills 21 Fed Com 2H</u> <b>Project Location:</b> <u>Rural Jct N.M.</u> <b>Sampler Name:</b> <u>Dominic Casarez</u>				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> <u>Newbourn oil</u> <b>Attn:</b> <u>Rebbie Runnels</u> <b>Address:</b> <u>4801 Basin Park Blvd</u> <b>City:</b> <u>Hobbs</u> <b>State:</b> <u>N.M.</u> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																	
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME																
					GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:																			
	<u>H222278</u>																								
	<u>21</u>	<u>DFS 2@ Surf</u>						<u>5</u>	<u>27</u>																
	<u>22</u>	<u>DFS 2@ 1</u>																							
	<u>23</u>	<u>DFS 2@ 2</u>																							
	<u>24</u>	<u>DFS 2@ 3</u>																							
	<u>25</u>	<u>DFS 3@ Surf</u>																							
	<u>26</u>	<u>DFS 3@ 3</u>																							
	<u>27</u>	<u>DFS 3@ 4</u>																							
	<u>28</u>	<u>DFS 6@ Surf</u>																							
	<u>29</u>	<u>DFS 6@ 4</u>																							
	<u>30</u>	<u>DFS 6@ 6</u>																							

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Relinquished By:	Date: <u>5/27</u>	Received By: <u>S. Rodriguez</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>1546</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:				

Relinquished By:	Date:	Received By:	Please email results to pm@etechenv.com.	
	Time:			

Delivered By: (Circle One) <u>22.0°C - 0.5°C</u>	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other: <u>21.5°C #113</u>	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	(Initials) <u>SR</u>





# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

Page 43 of 43

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
Project Manager: <u>Lane Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8016M)</div> <div>BTEX (8021B)</div> </div>																		
Address: P.O. Box 301				Company: <u>Newbourn oil</u>																						
City: Lovington State: NM Zip: 88260				Attn: <u>Robbie Runnels</u>																						
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: <u>4801 Busnie Rd Hobbs</u>																						
Project #: <u>15507</u> Project Owner:				City: <u>Hobbs</u>																						
Project Name: <u>Red Hills 21 fed Com 2H</u>				State: <u>NM</u> Zip:																						
Project Location: <u>Rural Sal NM</u>				Phone #:																						
Sampler Name: <u>Dominic Casarez</u>				Fax #:																						
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<u>H202278</u>																										
<u>31</u>	<u>DFS 6@ 8</u>												<u>5/27</u>													
<u>32</u>	<u>DFS 6@ 12</u>																									
<u>33</u>	<u>DFS 6@ 14</u>																									
<u>34</u>	<u>DFS 6@ 16</u>																									
<u>35</u>	<u>DFS 6@ 18</u>																									
<u>36</u>	<u>DFS 6@ 20</u>																									
<u>37</u>	<u>DFS 6@ 22</u>																									
<u>DC 527</u>																										
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Relinquished By: <u>D. Casarez</u>				Date: <u>5/27</u>		Received By: <u>S. Rodriguez</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:												
				Time: <u>1540</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:												
Relinquished By:				Date:		Received By:				REMARKS:  Please email results to pm@etechenv.com.																
				Time:																						
Delivered By: (Circle One) <u>22.0°C</u> <u>C-0.5°C</u>						Sample Condition		CHECKED BY:																		
Sampler - UPS - Bus - Other: <u>21.5°C</u> <u>#113</u>						Cool Intact		(Initials)																		
						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<u>SR</u>																		

FORM-006  
Revision 1.0

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



---

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

---

June 23, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/09/22 16:40.

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

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 14:08

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 12	H222473-01	Soil	09-Jun-22 00:00	09-Jun-22 16:40
SW 13	H222473-02	Soil	09-Jun-22 00:00	09-Jun-22 16:40
EW 14	H222473-03	Soil	09-Jun-22 00:00	09-Jun-22 16:40
EW 13	H222473-04	Soil	09-Jun-22 00:00	09-Jun-22 16:40

06/23/22 - Client changed the sample ID on -03. This is the revised report and will replace the one sent on 06/14/22.

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 14:08

**SW 12**  
**H222473-01 (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	2061019	AC	10-Jun-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			95.9 %	69.9-140		2061016	JH/	10-Jun-22	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2061011	MS	10-Jun-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2061011	MS	10-Jun-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2061011	MS	10-Jun-22	8015B	
Surrogate: 1-Chlorooctane			71.8 %	66.9-136		2061011	MS	10-Jun-22	8015B	
Surrogate: 1-Chlorooctadecane			80.2 %	59.5-142		2061011	MS	10-Jun-22	8015B	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 14:08

**SW 13****H222473-02 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	2061019	AC	10-Jun-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2061016	JH/	10-Jun-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.0 %		69.9-140	2061016	JH/	10-Jun-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2061011	MS	14-Jun-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2061011	MS	14-Jun-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2061011	MS	14-Jun-22	8015B	

Surrogate: 1-Chlorooctane			123 %		66.9-136	2061011	MS	14-Jun-22	8015B	
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Surrogate: 1-Chlorooctadecane			128 %		59.5-142	2061011	MS	14-Jun-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 14:08

**EW 14**  
**H222473-03 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	2061019	AC	10-Jun-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2061016	JH/	10-Jun-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			96.5 %		69.9-140	2061016	JH/	10-Jun-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2061011	MS	13-Jun-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2061011	MS	13-Jun-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2061011	MS	13-Jun-22	8015B	

Surrogate: 1-Chlorooctane			89.0 %		66.9-136	2061011	MS	13-Jun-22	8015B	
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Surrogate: 1-Chlorooctadecane			93.8 %		59.5-142	2061011	MS	13-Jun-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 14:08

**EW 13**  
**H222473-04 (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>32.0</b>		16.0	mg/kg	4	2061019	AC	10-Jun-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2061016	JH/	10-Jun-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.1 %		69.9-140	2061016	JH/	10-Jun-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2061011	MS	10-Jun-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2061011	MS	10-Jun-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2061011	MS	10-Jun-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			67.2 %		66.9-136	2061011	MS	10-Jun-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			72.7 %		59.5-142	2061011	MS	10-Jun-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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 14:08

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2061019 - 1:4 DI Water</b>										
<b>Blank (2061019-BLK1)</b>				Prepared & Analyzed: 10-Jun-22						
Chloride	ND	16.0	mg/kg							
<b>LCS (2061019-BS1)</b>				Prepared & Analyzed: 10-Jun-22						
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (2061019-BSD1)</b>				Prepared & Analyzed: 10-Jun-22						
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	

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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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 14:08

**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 2061016 - Volatiles****Blank (2061016-BLK1)**

Prepared &amp; Analyzed: 10-Jun-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)	ND		mg/kg	0.0500		99.3	69.9-140			

**LCS (2061016-BS1)**

Prepared &amp; Analyzed: 10-Jun-22

Benzene	2.21	0.050	mg/kg	2.00		110	83.4-122			
Toluene	2.18	0.050	mg/kg	2.00		109	84.2-126			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	84.2-121			
m,p-Xylene	4.47	0.100	mg/kg	4.00		112	89.9-126			
o-Xylene	2.09	0.050	mg/kg	2.00		104	84.3-123			
Total Xylenes	6.56	0.150	mg/kg	6.00		109	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0477		mg/kg	0.0500		95.4	69.9-140			

**LCS Dup (2061016-BSD1)**

Prepared &amp; Analyzed: 10-Jun-22

Benzene	1.98	0.050	mg/kg	2.00		99.2	83.4-122	10.7	12.6	
Toluene	1.97	0.050	mg/kg	2.00		98.4	84.2-126	10.1	13.3	
Ethylbenzene	1.89	0.050	mg/kg	2.00		94.4	84.2-121	11.5	13.9	
m,p-Xylene	3.99	0.100	mg/kg	4.00		99.7	89.9-126	11.4	13.6	
o-Xylene	1.89	0.050	mg/kg	2.00		94.3	84.3-123	10.3	14.1	
Total Xylenes	5.87	0.150	mg/kg	6.00		97.9	89.1-124	11.0	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0479		mg/kg	0.0500		95.7	69.9-140			

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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: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 14:08

**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 2061011 - General Prep - Organics****Blank (2061011-BLK1)**

Prepared &amp; Analyzed: 10-Jun-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		93.9	66.9-136			
Surrogate: 1-Chlorooctadecane	51.2		mg/kg	50.0		102	59.5-142			

**LCS (2061011-BS1)**

Prepared &amp; Analyzed: 10-Jun-22

GRO C6-C10	180	10.0	mg/kg	200		90.1	78.5-128			
DRO >C10-C28	192	10.0	mg/kg	200		96.0	75.8-135			
Total TPH C6-C28	372	10.0	mg/kg	400		93.0	81.5-127			
Surrogate: 1-Chlorooctane	52.2		mg/kg	50.0		104	66.9-136			
Surrogate: 1-Chlorooctadecane	55.5		mg/kg	50.0		111	59.5-142			

**LCS Dup (2061011-BSD1)**

Prepared &amp; Analyzed: 10-Jun-22

GRO C6-C10	184	10.0	mg/kg	200		92.2	78.5-128	2.37	21.4	
DRO >C10-C28	189	10.0	mg/kg	200		94.5	75.8-135	1.65	17.9	
Total TPH C6-C28	373	10.0	mg/kg	400		93.3	81.5-127	0.315	17.6	
Surrogate: 1-Chlorooctane	44.0		mg/kg	50.0		87.9	66.9-136			
Surrogate: 1-Chlorooctadecane	47.4		mg/kg	50.0		94.8	59.5-142			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

Page 11 of 11

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
Project Manager: <u>Lance Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																		
Address: P.O. Box 301				Company: <u>Mewbourne</u>																						
City: Lovington State: NM Zip: 88260				Attn: <u>Robbie Runnels</u>																						
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: <u>4801 Business Park</u>																						
Project #: <u>15507</u> Project Owner: <u>Mewbourne</u>				City: <u>Hobbs</u>																						
Project Name: <u>Red Hills West 2L Fed Com 2H</u>				State: <u>NM</u> Zip: _____																						
Project Location: <u>Rural JAL NM</u>				Phone #: _____																						
Sampler Name: <u>Dominic Casarez</u>				Fax #: _____																						
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<u>H022473</u>																										
DC 1	SW 12												6/9													
2	SW 13												6/9													
3	EW 12 EW 14 *												6/9													
4	EW 13												6/9													
✓																										
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																										
Relinquished By: <u>Dominic Casarez</u>				Date: <u>6/21</u>		Received By: <u>Shodriquer</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:												
				Time: <u>4:40</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:												
Relinquished By:				Date: <u>6/22</u>		Received By:				REMARKS:																
				Time: <u>16:40</u>						*Sample ID changed as per Ben. 6/23/22 ch																
Delivered By: (Circle One) <u>29.18) C-0.5°</u>																										
Sampler - UPS - Bus - Other: <u>28.16° #115</u>																										
Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No																										
CHECKED BY: (Initials) <u>SC</u>																										
Please email results to pm@etechenv.com.																										

FORM-006  
Revision 1.0

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



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

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June 17, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 06/13/22 16:47.

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/13/2022  
 Reported: 06/17/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 16 B (H22529-01)**

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	06/14/2022	ND	2.02	101	2.00	0.465		
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	06/15/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					

Surrogate: 1-Chlorooctane 130 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/13/2022  
 Reported: 06/17/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 17 B (H222529-02)**

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	06/14/2022	ND	2.02	101	2.00	0.465		
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/15/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/13/2022  
 Reported: 06/17/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 18 B (H222529-03)**

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	06/14/2022	ND	2.02	101	2.00	0.465		
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	640	16.0	06/15/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/13/2022  
 Reported: 06/17/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 19 B (H222529-04)**

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	06/14/2022	ND	2.02	101	2.00	0.465		
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	06/15/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/13/2022  
 Reported: 06/17/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 20 B (H222529-05)**

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	06/14/2022	ND	2.02	101	2.00	0.465		
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40		
Total BTEX	<0.300	0.300	06/14/2022	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	112	16.0	06/15/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.7 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/13/2022  
 Reported: 06/17/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 15 A (H222529-06)**

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	06/14/2022	ND	2.02	101	2.00	0.465		
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	06/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 99.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/13/2022  
 Reported: 06/17/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 16 A (H222529-07)**

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	06/14/2022	ND	2.02	101	2.00	0.465		
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40		
Total BTEX	<0.300	0.300	06/14/2022	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	192	16.0	06/15/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/13/2022  
 Reported: 06/17/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 17 B (H222529-08)**

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	06/14/2022	ND	2.02	101	2.00	0.465		
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	06/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/13/2022  
 Reported: 06/17/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 18 A (H222529-09)**

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	06/14/2022	ND	2.02	101	2.00	0.465		
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40		
Total BTEx	<0.300	0.300	06/14/2022	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	16.0	16.0	06/15/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																							
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
Address: P.O. Box 301				Company: McNamee																											
City: Lovington		State: NM		Zip: 88260		Attn: Robbie Runnels																									
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: 4801 Bos Ark		City: Hobbs																									
Project #: 15507		Project Owner:		State: NM		Zip:																									
Project Name: Red Hills 21 Fed Cont 2H				Phone #:																											
Project Location: Rural Jal N.M.				Fax #:																											
Sampler Name: Dominic Casarez																															
FOR LAB USE ONLY																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																			
								GROUNDWATER																							
								WASTEWATER																							
								SOIL																							
								OIL																							
								SLUDGE																							
								OTHER:																							
								ACID/BASE:																							
								ICE / COOL																							
								OTHER:																							
												DATE		TIME																	
H222529														6/13		440															
1		WW 16 B																													
2		WW 17 B																													
3		WW 18 B																													
4		WW 19 B																													
5		WW 20 B																													
6		EW 15 A																													
7		EW 16 A																													
8		EW 17 B																													
9		EW 18 A																													
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																															
Relinquished By:				Date: 6/13				Received By:				Phone Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:															
[Signature]				Time:				[Signature]				Fax Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:															
Relinquished By:				Date:				Received By:				REMARKS:																			
[Signature]				Time:				[Signature]																							
Delivered By: (Circle One) 29.4% C.O.5%				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.																			
Sampler - UPS - Bus - Other: 28.9% #113				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				(Initials) [Signature]																							

FORM-006  
Revision 1.0

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



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

---

June 21, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 06/16/22 16:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/16/2022  
 Reported: 06/21/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/16/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: OSS @ SUR (H222584-01)**

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	06/17/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	06/17/2022	ND	2.04	102	2.00	3.01	
Ethylbenzene*	<0.050	0.050	06/17/2022	ND	1.92	95.9	2.00	2.71	
Total Xylenes*	<0.150	0.150	06/17/2022	ND	5.96	99.3	6.00	2.77	
Total BTEX	<0.300	0.300	06/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	448	16.0	06/17/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2022	ND	195	97.4	200	1.54	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	201	100	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/16/2022  
 Reported: 06/21/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/16/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: OSS @ 1 (H222584-02)**

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	06/17/2022	ND	2.03	102	2.00	2.58		
Toluene*	<0.050	0.050	06/17/2022	ND	2.04	102	2.00	3.01		
Ethylbenzene*	<0.050	0.050	06/17/2022	ND	1.92	95.9	2.00	2.71		
Total Xylenes*	<0.150	0.150	06/17/2022	ND	5.96	99.3	6.00	2.77		
Total BTEX	<0.300	0.300	06/17/2022	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	112	16.0	06/17/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2022	ND	195	97.4	200	1.54	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	201	100	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/16/2022  
 Reported: 06/21/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/16/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WW21 (H222584-03)**

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	06/17/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	06/17/2022	ND	2.04	102	2.00	3.01	
Ethylbenzene*	<0.050	0.050	06/17/2022	ND	1.92	95.9	2.00	2.71	
Total Xylenes*	<0.150	0.150	06/17/2022	ND	5.96	99.3	6.00	2.77	
Total BTEx	<0.300	0.300	06/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/17/2022	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2022	ND	195	97.4	200	1.54	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	201	100	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/16/2022  
 Reported: 06/21/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/16/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 20 A (H222584-04)**

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	06/17/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	06/17/2022	ND	2.04	102	2.00	3.01	
Ethylbenzene*	<0.050	0.050	06/17/2022	ND	1.92	95.9	2.00	2.71	
Total Xylenes*	<0.150	0.150	06/17/2022	ND	5.96	99.3	6.00	2.77	
Total BTEX	<0.300	0.300	06/17/2022	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	176	16.0	06/17/2022	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2022	ND	195	97.4	200	1.54	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	201	100	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/16/2022  
 Reported: 06/21/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/16/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 7 (H222584-05)**

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	06/17/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	06/17/2022	ND	2.04	102	2.00	3.01	
Ethylbenzene*	<0.050	0.050	06/17/2022	ND	1.92	95.9	2.00	2.71	
Total Xylenes*	<0.150	0.150	06/17/2022	ND	5.96	99.3	6.00	2.77	
Total BTEx	<0.300	0.300	06/17/2022	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	
Chloride	144	16.0	06/17/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2022	ND	195	97.4	200	1.54	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	201	100	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/16/2022  
 Reported: 06/21/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/16/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 22 B (H222584-06)**

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	06/17/2022	ND	2.20	110	2.00	3.98	
Toluene*	<0.050	0.050	06/17/2022	ND	2.19	109	2.00	3.94	
Ethylbenzene*	<0.050	0.050	06/17/2022	ND	2.12	106	2.00	3.81	
Total Xylenes*	<0.150	0.150	06/17/2022	ND	6.57	109	6.00	3.50	
Total BTEx	<0.300	0.300	06/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/17/2022	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2022	ND	203	101	200	1.85	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	208	104	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/16/2022  
 Reported: 06/21/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/16/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 19 A (H222584-07)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2022	ND	2.20	110	2.00	3.98	
Toluene*	<0.050	0.050	06/17/2022	ND	2.19	109	2.00	3.94	
Ethylbenzene*	<0.050	0.050	06/17/2022	ND	2.12	106	2.00	3.81	
Total Xylenes*	<0.150	0.150	06/17/2022	ND	6.57	109	6.00	3.50	
Total BTX	<0.300	0.300	06/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/17/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2022	ND	203	101	200	1.85	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	208	104	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/16/2022  
 Reported: 06/21/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/16/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 21 (H222584-08)**

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	06/17/2022	ND	2.20	110	2.00	3.98		
Toluene*	<0.050	0.050	06/17/2022	ND	2.19	109	2.00	3.94		
Ethylbenzene*	<0.050	0.050	06/17/2022	ND	2.12	106	2.00	3.81		
Total Xylenes*	<0.150	0.150	06/17/2022	ND	6.57	109	6.00	3.50		
Total BTEX	<0.300	0.300	06/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/17/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2022	ND	203	101	200	1.85	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	208	104	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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Notes and Definitions

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

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A handwritten signature in cursive script, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 11 of 11

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
<b>Project Manager:</b> Lance Crenshaw				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
<b>Address:</b> P.O. Box 301				<b>Company:</b> Menbourne																			
<b>City:</b> Lovington		<b>State:</b> NM		<b>Zip:</b> 88260		<b>Attn:</b> Robbie Runnels																	
<b>Phone #:</b> (575) 396-2378		<b>Fax #:</b> (575) 396-1429		<b>Address:</b> 4861 Pms Rrc Blvd																			
<b>Project #:</b> 15507		<b>Project Owner:</b> Menbourne		<b>City:</b> Hobbs																			
<b>Project Name:</b> Red Hills 21 Fed Cam 2H				<b>State:</b> NM																<b>Zip:</b>			
<b>Project Location:</b> Rural 5el N.m.				<b>Phone #:</b>																			
<b>Sampler Name:</b> Dominick Casarez				<b>Fax #:</b>																			
<div style="display: flex;"> <div style="flex: 1;"> <p>FOR LAB USE ONLY</p> <p><b>Lab I.D.</b></p> <p>H222584</p> </div> <div style="flex: 2;"> <p><b>Sample I.D.</b></p> <p>DC 1 OSSQ 5v</p> <p>2 OSSQ 1</p> <p>3 WW21</p> <p>4 EW20 A</p> <p>5 NW7</p> <p>6 VW22 B</p> <p>7 EW19 A</p> <p>8 EW21</p> </div> <div style="flex: 1;"> <p>(G)RAB OR (C)OMP.</p> <p># CONTAINERS</p> </div> <div style="flex: 2;"> <p><b>MATRIX</b></p> <p>GROUNDWATER</p> <p>WASTEWATER</p> <p>SOIL</p> <p>OIL</p> <p>SLUDGE</p> <p>OTHER:</p> </div> <div style="flex: 1;"> <p><b>PRESERV.</b></p> <p>ACID/BASE:</p> <p>ICE / COOL</p> <p>OTHER:</p> </div> <div style="flex: 2;"> <p><b>SAMPLING</b></p> <p>DATE</p> <p>TIME</p> </div> </div>																							
<p>PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																							
<b>Relinquished By:</b>				<b>Date:</b> 6/16		<b>Received By:</b>				<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Phone #:</b>											
<b>Relinquished By:</b>				<b>Date:</b> 7/6/21		<b>Received By:</b>				<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Fax #:</b>											
<b>Delivered By: (Circle One)</b> 34.0°C C-0.5°C				<b>Sample Condition</b>		<b>CHECKED BY:</b>				Please email results to pm@etechenv.com.													
<b>Sampler - UPS - Bus - Other:</b> 33.5°C #113				Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		(Initials) TO																	

FORM-006  
Revision 1.0

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



---

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

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June 23, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 06/20/22 16:15.

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

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

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: RED HILLS 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 16:26

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
-----------	---------------	--------	--------------	---------------

WW 18 C	H222629-01	Soil	20-Jun-22 16:15	20-Jun-22 16:15
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06/23/22 - Client changed the sample ID (See COC). This is the revised report and will replace the one sent earlier 06/23/22.

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Coley 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	Project: RED HILLS 21 FED COM 2H	Reported:
2617 W MARLAND	Project Number: 15507	23-Jun-22 16:26
HOBBS NM, 88240	Project Manager: LANCE CRENSHAW	
	Fax To:	

WW 18 C  
H222629-01 (Soil)


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

Cardinal Laboratories

Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	2062128	GM	21-Jun-22	4500-Cl-B	

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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: RED HILLS 21 FED COM 2H  
Project Number: 15507  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
23-Jun-22 16:26

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2062128 - 1:4 DI Water</b>										
<b>Blank (2062128-BLK1)</b>				Prepared & Analyzed: 21-Jun-22						
Chloride	ND	16.0	mg/kg							
<b>LCS (2062128-BS1)</b>				Prepared & Analyzed: 21-Jun-22						
Chloride	416	16.0	mg/kg	400		104	80-120			
<b>LCS Dup (2062128-BSD1)</b>				Prepared & Analyzed: 21-Jun-22						
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager





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

---

June 27, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 06/22/22 15:27.

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/22/2022  
 Reported: 06/27/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/22/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 22 (H222677-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2022	ND	2.19	109	2.00	11.4	
Toluene*	<0.050	0.050	06/24/2022	ND	2.14	107	2.00	11.4	
Ethylbenzene*	<0.050	0.050	06/24/2022	ND	2.11	106	2.00	11.8	
Total Xylenes*	<0.150	0.150	06/24/2022	ND	6.58	110	6.00	11.7	
Total BTX	<0.300	0.300	06/24/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/24/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2022	ND	218	109	200	2.69	
DRO >C10-C28*	<10.0	10.0	06/24/2022	ND	221	111	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	06/24/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Page 4 of 4

[illegible]

FORM-006  
Revision 1.0

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



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

---

August 16, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 08/10/22 17:00.

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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 @ 10' (H223622-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.77	88.7	2.00	0.864	
Toluene*	<0.050	0.050	08/13/2022	ND	1.88	93.8	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.80	89.8	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	5.50	91.7	6.00	3.26	
Total BTX	<0.300	0.300	08/13/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	08/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2022	ND	189	94.4	200	3.24	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 43-149

Surrogate: 1-Chlorooctadecane 95.0 % 42.5-161

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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 @ 11' (H223622-02)**

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	08/13/2022	ND	1.77	88.7	2.00	0.864		
Toluene*	<0.050	0.050	08/13/2022	ND	1.88	93.8	2.00	1.35		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.80	89.8	2.00	2.09		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	5.50	91.7	6.00	3.26		
Total BTEx	<0.300	0.300	08/13/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2022	ND	189	94.4	200	3.24	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 @ 12' (H223622-03)**

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	08/13/2022	ND	1.77	88.7	2.00	0.864		
Toluene*	<0.050	0.050	08/13/2022	ND	1.88	93.8	2.00	1.35		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.80	89.8	2.00	2.09		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	5.50	91.7	6.00	3.26		
Total BTEX	<0.300	0.300	08/13/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2022	ND	189	94.4	200	3.24	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 @ 13' (H223622-04)**

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	08/13/2022	ND	1.77	88.7	2.00	0.864	
Toluene*	<0.050	0.050	08/13/2022	ND	1.88	93.8	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.80	89.8	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	5.50	91.7	6.00	3.26	
Total BTEX	<0.300	0.300	08/13/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	08/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2022	ND	189	94.4	200	3.24	
DRO >C10-C28*	73.2	10.0	08/13/2022	ND	209	105	200	1.90	
EXT DRO >C28-C36	64.0	10.0	08/13/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 3 @ 4' (H223622-05)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTX	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2022	ND	189	94.5	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/11/2022	ND	199	99.4	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	08/11/2022	ND					

Surrogate: 1-Chlorooctane 86.4 % 43-149

Surrogate: 1-Chlorooctadecane 86.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 3 @ 5' (H223622-06)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEX	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 43-149

Surrogate: 1-Chlorooctadecane 98.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 4 @ 4' (H223622-07)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	08/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 43-149

Surrogate: 1-Chlorooctadecane 95.6 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 4 @ 5' (H223622-08)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEX	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 95.4 % 43-149

Surrogate: 1-Chlorooctadecane 99.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 4 @ 6' (H223622-09)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEx	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 43-149

Surrogate: 1-Chlorooctadecane 100 % 42.5-161

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 4 @ 7' (H223622-10)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEX	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 43-149

Surrogate: 1-Chlorooctadecane 97.8 % 42.5-161

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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 1 @ 4' (H223622-11)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEx	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5080	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 43-149

Surrogate: 1-Chlorooctadecane 95.7 % 42.5-161

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 1 @ 5' (H223622-12)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEX	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	08/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 43-149

Surrogate: 1-Chlorooctadecane 92.5 % 42.5-161

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 1 @ 6' (H223622-13)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTX	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1870	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 1 @ 7' (H223622-14)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEX	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 94.2 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 @ 4' (H223622-15)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEx	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 43-149

Surrogate: 1-Chlorooctadecane 100 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 @ 5' (H223622-16)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEx	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1710	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 43-149

Surrogate: 1-Chlorooctadecane 90.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 @ 6' (H223622-17)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTX	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1710	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 43-149

Surrogate: 1-Chlorooctadecane 95.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 @ 7' (H223622-18)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEx	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2210	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 43-149

Surrogate: 1-Chlorooctadecane 92.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 @ 8' (H223622-19)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEx	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 43-149

Surrogate: 1-Chlorooctadecane 84.7 % 42.5-161

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 @ 9' (H223622-20)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEx	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6240	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 76.5 % 43-149

Surrogate: 1-Chlorooctadecane 77.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 7 @ 4' (H223622-21)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEx	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	08/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 43-149

Surrogate: 1-Chlorooctadecane 82.3 % 42.5-161

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 7 @ 5' (H223622-22)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEx	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6720	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 43-149

Surrogate: 1-Chlorooctadecane 92.4 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 8 @ 4' (H223622-23)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEX	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 43-149

Surrogate: 1-Chlorooctadecane 89.6 % 42.5-161

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 8 @ 5' (H223622-24)**

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	08/13/2022	ND	1.89	94.6	2.00	0.383		
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792		
Total BTEx	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	08/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 83.7 % 43-149

Surrogate: 1-Chlorooctadecane 84.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 8 @ 6' (H223622-25)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2022	ND	2.03	101	2.00	0.364	
Toluene*	<0.050	0.050	08/15/2022	ND	1.96	98.1	2.00	0.122	
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.7	2.00	0.831	
Total Xylenes*	<0.150	0.150	08/15/2022	ND	6.00	100	6.00	1.75	
Total BTX	<0.300	0.300	08/15/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2022	ND	214	107	200	1.67	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	208	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					

Surrogate: 1-Chlorooctane 97.9 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 8 @ 7' (H223622-26)**

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	08/15/2022	ND	2.03	101	2.00	0.364	
Toluene*	<0.050	0.050	08/15/2022	ND	1.96	98.1	2.00	0.122	
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.7	2.00	0.831	
Total Xylenes*	<0.150	0.150	08/15/2022	ND	6.00	100	6.00	1.75	
Total BTEx	<0.300	0.300	08/15/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2022	ND	214	107	200	1.67	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	208	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					

Surrogate: 1-Chlorooctane 95.0 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager





# **CARDINAL 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**

Company Name: Etech Environmental & Safety Solutions				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <i>Lance Crenshaw</i>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 West Marland				Company: <i>Mawbourne</i>															
City: Hobbs State: NM Zip: 88240				Attn: <i>Curtis Walker</i>															
Phone #: (575) 264-9884 Fax #:				Address:															
Project #: Project Owner:				City:															
Project Name: <i>Red Hills 21 Fed Com 2H</i>				State: Zip:															
Project Location:				Phone #:															
Sampler Name: <i>Alicia Ros</i>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.			(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV		SAMPLING								
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME			
<i>12236822</i>																			
<i>1</i>	<i>SP</i>	<i>2</i>	<i>G 10 FT</i>	<i>X</i>				<i>X</i>							<i>8-10-22</i>				
<i>2</i>	<i>SP</i>	<i>2</i>	<i>G 11 FT</i>																
<i>3</i>	<i>SP</i>	<i>2</i>	<i>G 12 FT</i>																
<i>4</i>	<i>SP</i>	<i>2</i>	<i>G 13 FT</i>																
<i>5</i>	<i>SP</i>	<i>3</i>	<i>G 4 FT</i>																
<i>6</i>	<i>SP</i>	<i>3</i>	<i>G 5 FT</i>																
<i>7</i>	<i>SP</i>	<i>4</i>	<i>G 4 FT</i>																
<i>8</i>	<i>SP</i>	<i>4</i>	<i>G 5 FT</i>																
<i>9</i>	<i>SP</i>	<i>4</i>	<i>G 6 FT</i>																
<i>10</i>	<i>SP</i>	<i>4</i>	<i>G 7 FT</i>																

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Relinquished By: <i>[Signature]</i>	Date: <i>8/10/22</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
	Time:		REMARKS:	
			email results	
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
<i>Sampler - UPS - Bus - Other:</i>	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>[Signature]</i>		

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



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

Company Name: Etech Environmental & Safety Solutions				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 West Marland				Company: Mewharne															
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker															
Phone #: (575) 264-9884 Fax #:				Address:															
Project #: Project Owner:				City:															
Project Name: Red Hills 21 Fed Com 2H				State: Zip:															
Project Location:				Phone #:															
Sampler Name: Aaron Kios				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.			(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME			
42231622	SP	1.	4 Ft	X				X							8-10-22				
11	SP	1.	5 Ft																
12	SP	1.	6 Ft																
13	SP	1.	7 Ft																
14	SP	2.	4 Ft																
15	SP	2.	5 Ft																
16	SP	2.	6 Ft																
17	SP	2.	7 Ft																
18	SP	2.	8 Ft																
19	SP	2.	9 Ft																
20	SP	2.	9 Ft																

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Relinquished By: <i>[Signature]</i>	Date: 8/10/22 Time: 7:00	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <i>u.s. c-o.u.s.</i>			REMARKS: email results	
Sampler - UPS - Bus - Other: <i>u.s. #113</i>			CHECKED BY: (Initials) <i>SR</i>	
Sample Condition Cool Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				

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

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

Company Name: <b>Ejeh Environmental &amp; Safety Solutions</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: <b>Lance Crenshaw</b>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																			
Address: <b>2617 West Marland</b>				Company: <b>Mowburne</b>																							
City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>				Attn: <b>Connor Walker</b>																							
Phone #: <b>(575) 264-9884</b> Fax #:				Address:																							
Project #: Project Owner:				City:																							
Project Name: <b>Red Hill 21 Fed Com 2H</b>				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: <b>Anon Rias</b>				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
<b>H223622</b>																											
<b>21</b>	<b>SP 7. @ 4 Ft</b>		<b>X</b>			<b>X</b>							<b>8-10-22</b>		<b>X</b>	<b>X</b>	<b>X</b>										
<b>22</b>	<b>SP 7. @ 5 Ft</b>																										
<b>23</b>	<b>SP 8. @ 4 Ft</b>																										
<b>24</b>	<b>SP 8. @ 5 Ft</b>																										
<b>25</b>	<b>SP 8. @ 6 Ft</b>																										
<b>26</b>	<b>SP 8. @ 7 Ft</b>																										

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Relinquished By: <b>Anon Rias</b>	Date: <b>8/10/22</b> Time: <b>1:00</b>	Received By: <b>Shadrach</b>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <b>Sampler - UPS - Bus - Other</b>			REMARKS: <b>email results</b>	
Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: (Initials) <b>SR</b>		

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



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

---

September 02, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 09/02/22 11:10.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/02/2022  
 Reported: 09/02/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 09/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 6 @ 4' (H224040-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/02/2022	ND	1.84	92.1	2.00	5.60		
Toluene*	<0.050	0.050	09/02/2022	ND	1.81	90.6	2.00	7.10		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	1.79	89.5	2.00	8.10		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	5.53	92.2	6.00	8.44		
Total BTX	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/02/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	192	96.2	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	188	93.8	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 89.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.1 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/02/2022  
 Reported: 09/02/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 09/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 6 @ 6' (H224040-02)**

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	09/02/2022	ND	1.84	92.1	2.00	5.60		
Toluene*	<0.050	0.050	09/02/2022	ND	1.81	90.6	2.00	7.10		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	1.79	89.5	2.00	8.10		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	5.53	92.2	6.00	8.44		
Total BTEX	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/02/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	192	96.2	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	188	93.8	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.8 % 46.3-178

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



## ARDINAL LABORATORIES

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

October 17, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/11/22 15:22.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/11/2022  
 Reported: 10/17/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 1 @ 4' (H224778-01)**

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	10/14/2022	ND	2.06	103	2.00	1.95	
Toluene*	<0.050	0.050	10/14/2022	ND	2.16	108	2.00	0.592	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.7	2.00	0.962	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.99	99.8	6.00	0.573	
Total BTEX	<0.300	0.300	10/14/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	10/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	197	98.4	200	0.879	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	200	99.9	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/11/2022	Sampling Date:	10/10/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 2 @ 4' (H224778-02)**

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	10/14/2022	ND	2.06	103	2.00	1.95		
Toluene*	<0.050	0.050	10/14/2022	ND	2.16	108	2.00	0.592		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.7	2.00	0.962		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.99	99.8	6.00	0.573		
Total BTEX	<0.300	0.300	10/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	197	98.4	200	0.879	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	200	99.9	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/11/2022	Sampling Date:	10/10/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 3 @ 4' (H224778-03)**

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	10/14/2022	ND	2.06	103	2.00	1.95		
Toluene*	<0.050	0.050	10/14/2022	ND	2.16	108	2.00	0.592		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.7	2.00	0.962		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.99	99.8	6.00	0.573		
Total BTEX	<0.300	0.300	10/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	1220	16.0	10/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	197	98.4	200	0.879	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	200	99.9	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/11/2022	Sampling Date:	10/10/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 4 @ 4' (H224778-04)**

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	10/14/2022	ND	2.06	103	2.00	1.95		
Toluene*	<0.050	0.050	10/14/2022	ND	2.16	108	2.00	0.592		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.7	2.00	0.962		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.99	99.8	6.00	0.573		
Total BTEx	<0.300	0.300	10/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	496	16.0	10/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	197	98.4	200	0.879	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	200	99.9	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 98.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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 and 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 damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/11/2022	Sampling Date:	10/10/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 5 @ 4' (H224778-05)**

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	10/14/2022	ND	2.06	103	2.00	1.95		
Toluene*	<0.050	0.050	10/14/2022	ND	2.16	108	2.00	0.592		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.7	2.00	0.962		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.99	99.8	6.00	0.573		
Total BTEx	<0.300	0.300	10/14/2022	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	1840	16.0	10/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	197	98.4	200	0.879	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	200	99.9	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/11/2022  
 Reported: 10/17/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 6 @ 4' (H224778-06)**

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	10/14/2022	ND	2.06	103	2.00	1.95		
Toluene*	<0.050	0.050	10/14/2022	ND	2.16	108	2.00	0.592		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.7	2.00	0.962		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.99	99.8	6.00	0.573		
Total BTEX	<0.300	0.300	10/14/2022	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	2680	16.0	10/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	197	98.4	200	0.879	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	200	99.9	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/11/2022	Sampling Date:	10/10/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 7 @ 4' (H224778-07)**

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	10/14/2022	ND	2.06	103	2.00	1.95		
Toluene*	<0.050	0.050	10/14/2022	ND	2.16	108	2.00	0.592		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.7	2.00	0.962		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.99	99.8	6.00	0.573		
Total BTEX	<0.300	0.300	10/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1340	16.0	10/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	197	98.4	200	0.879	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	200	99.9	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/11/2022	Sampling Date:	10/10/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 8 @ 4' (H224778-08)**

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	10/14/2022	ND	2.06	103	2.00	1.95		
Toluene*	<0.050	0.050	10/14/2022	ND	2.16	108	2.00	0.592		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.7	2.00	0.962		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.99	99.8	6.00	0.573		
Total BTEX	<0.300	0.300	10/14/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	205	103	200	1.56		
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	215	107	200	1.44		
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND						

Surrogate: 1-Chlorooctane 83.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.9 % 46.3-178

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/11/2022	Sampling Date:	10/10/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 9 @ 4' (H224778-09)**

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	10/14/2022	ND	2.06	103	2.00	1.95		
Toluene*	<0.050	0.050	10/14/2022	ND	2.16	108	2.00	0.592		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.7	2.00	0.962		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.99	99.8	6.00	0.573		
Total BTEX	<0.300	0.300	10/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	528	16.0	10/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	205	103	200	1.56		
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	215	107	200	1.44		
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND						

Surrogate: 1-Chlorooctane 88.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.8 % 46.3-178

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/11/2022	Sampling Date:	10/10/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 10 @ 4' (H224778-10)**

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	10/14/2022	ND	2.06	103	2.00	1.95	
Toluene*	<0.050	0.050	10/14/2022	ND	2.16	108	2.00	0.592	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.7	2.00	0.962	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.99	99.8	6.00	0.573	
Total BTEX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	205	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.0 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/11/2022	Sampling Date:	10/10/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PNW 2 (H224778-11)**

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	10/14/2022	ND	2.06	103	2.00	1.95	
Toluene*	<0.050	0.050	10/14/2022	ND	2.16	108	2.00	0.592	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.7	2.00	0.962	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	5.99	99.8	6.00	0.573	
Total BTEx	<0.300	0.300	10/14/2022	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	
Chloride	256	16.0	10/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	205	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.3 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/11/2022  
 Reported: 10/17/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PEW 1 (H224778-12)**

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	10/14/2022	ND	2.06	103	2.00	3.43		
Toluene*	<0.050	0.050	10/14/2022	ND	2.02	101	2.00	3.40		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.5	2.00	3.82		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.04	101	6.00	4.93		
Total BTEx	<0.300	0.300	10/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	10/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	205	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.1 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/11/2022	Sampling Date:	10/10/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PEW 2 (H224778-13)**

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	10/14/2022	ND	2.06	103	2.00	3.43		
Toluene*	<0.050	0.050	10/14/2022	ND	2.02	101	2.00	3.40		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.5	2.00	3.82		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.04	101	6.00	4.93		
Total BTEx	<0.300	0.300	10/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	144	16.0	10/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	205	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.0 % 46.3-178

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 HOBBS NM, 88240  
 Fax To:

Received:	10/11/2022	Sampling Date:	10/10/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PSW 1 (H224778-14)**

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	10/14/2022	ND	2.06	103	2.00	3.43		
Toluene*	<0.050	0.050	10/14/2022	ND	2.02	101	2.00	3.40		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.5	2.00	3.82		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.04	101	6.00	4.93		
Total BTEx	<0.300	0.300	10/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	224	16.0	10/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	205	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.5 % 46.3-178

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

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

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 West Marland				Company: Mewbourne																									
City: Hobbs		State: NM		Zip: 88240		Attn: Connor Walker																							
Phone #: (575) 264-9884		Fax #:		Address:																									
Project #: 15507		Project Owner: Mewbourne		City:																									
Project Name: Red Hills West 21 Fed Com 2H				State:		Zip:																							
Project Location: Rural Lea County, NM				Phone #:																									
Sampler Name: Matthew Grieco				Fax #:																									
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																					
Lab I.D.		Sample I.D.		(GRAB OR C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER		DATE		TIME	
H2247278																													
1		PF1 @ 4'		C		1				X										X		X		X					
2		PF2 @ 4'		C		1				X										X		X		X					
3		PF3 @ 4'		C		1				X										X		X		X					
4		PF4 @ 4'		C		1				X										X		X		X					
5		PF5 @ 4'		C		1				X										X		X		X					
6		PF6 @ 4'		C		1				X										X		X		X					
7		PF7 @ 4'		C		1				X										X		X		X					
8		PF8 @ 4'		C		1				X										X		X		X					
9		PF9 @ 4'		C		1				X										X		X		X					
10		PF10 @ 4'		C		1				X										X		X		X					
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																													
Relinquished By:				Date: 10-11-22		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:															
				Time: 1522						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:															
Relinquished By:				Date:		Received By:				REMARKS:																			
				Time:																									
Delivered By: (Circle One)				#113		Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.															
Sampler - UPS - Bus - Other: -10.0c/-10.6c				Cool Intact				(Initials)																					
				<input type="checkbox"/> Yes <input type="checkbox"/> No				TO																					

FORM-006  
Revision 1.0

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



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

~~Page 18 of 18~~

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																							
Project Manager: Lance Crenshaw				P.O. #:				<div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div>																																							
Address: 2617 West Marland				Company: Mewbourne																																											
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																																											
Phone #: (575) 264-9884 Fax #:				Address:																																											
Project #: 15507 Project Owner: Mewbourne				City:																																											
Project Name: Red Hills West 21 Fed Com 2H				State: Zip:																																											
Project Location: Rural Lea County, NM				Phone #:																																											
Sampler Name: Matthew Grieco				Fax #:																																											
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)COMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME																			
H24778				C		1						X										X				10/10/22				X		X		X													
12		PEW1		C		1						X										X				10/10/22				X		X		X													
13		PEW2		C		1						X										X				10/10/22				X		X		X													
14		PSW1		C		1						X										X				10/10/22				X		X		X													
						</																																									

FORM-006  
Revision 1.0

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

---

October 19, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 10/14/22 15:48.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/14/2022  
 Reported: 10/19/2022  
 Project Name: RED HILLS WEST 21 FED COM 1H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/14/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PNW 3 (H224858-01)**

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	10/18/2022	ND	2.17	108	2.00	0.818	
Toluene*	<0.050	0.050	10/18/2022	ND	2.05	103	2.00	0.488	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.96	97.8	2.00	0.834	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.91	98.6	6.00	0.968	
Total BTEX	<0.300	0.300	10/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2022	ND	197	98.7	200	2.71	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	196	98.2	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 112 % 45.3-161

Surrogate: 1-Chlorooctadecane 129 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/14/2022	Sampling Date:	10/14/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PWW 1 (H224858-02)**

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	10/18/2022	ND	2.17	108	2.00	0.818		
Toluene*	<0.050	0.050	10/18/2022	ND	2.05	103	2.00	0.488		
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.96	97.8	2.00	0.834		
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.91	98.6	6.00	0.968		
Total BTEX	<0.300	0.300	10/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2022	ND	197	98.7	200	2.71	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	196	98.2	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/14/2022	Sampling Date:	10/14/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PWW 2 (H224858-03)**

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	10/18/2022	ND	2.17	108	2.00	0.818		
Toluene*	<0.050	0.050	10/18/2022	ND	2.05	103	2.00	0.488		
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.96	97.8	2.00	0.834		
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.91	98.6	6.00	0.968		
Total BTEX	<0.300	0.300	10/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/18/2022	ND	197	98.7	200	2.71		
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	196	98.2	200	2.22		
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND						

Surrogate: 1-Chlorooctane 109 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/14/2022	Sampling Date:	10/14/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PWW 3 (H224858-04)**

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	10/18/2022	ND	2.17	108	2.00	0.818		
Toluene*	<0.050	0.050	10/18/2022	ND	2.05	103	2.00	0.488		
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.96	97.8	2.00	0.834		
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.91	98.6	6.00	0.968		
Total BTEx	<0.300	0.300	10/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	10/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2022	ND	197	98.7	200	2.71	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	196	98.2	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161

Surrogate: 1-Chlorooctadecane 130 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/14/2022	Sampling Date:	10/14/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PEW 3 (H224858-05)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/18/2022	ND	2.17	108	2.00	0.818		
Toluene*	<0.050	0.050	10/18/2022	ND	2.05	103	2.00	0.488		
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.96	97.8	2.00	0.834		
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.91	98.6	6.00	0.968		
Total BTX	<0.300	0.300	10/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.5 % 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	208	16.0	10/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2022	ND	197	98.7	200	2.71	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	196	98.2	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 112 % 45.3-161

Surrogate: 1-Chlorooctadecane 131 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/14/2022	Sampling Date:	10/14/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PEW 4 (H224858-06)**

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	10/18/2022	ND	2.17	108	2.00	0.818		
Toluene*	<0.050	0.050	10/18/2022	ND	2.05	103	2.00	0.488		
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.96	97.8	2.00	0.834		
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.91	98.6	6.00	0.968		
Total BTEX	<0.300	0.300	10/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	10/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2022	ND	197	98.7	200	2.71	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	196	98.2	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 122 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager







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

---

October 31, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/21/22 15:50.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 11 @ 4' (H224971-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2022	ND	1.98	99.0	2.00	1.55	
Toluene*	<0.050	0.050	10/29/2022	ND	2.14	107	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.00	100	2.00	1.05	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.05	101	6.00	1.13	
Total BTX	<0.300	0.300	10/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/27/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	208	104	200	3.14	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	211	105	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.7 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 12 @ 4' (H224971-02)**

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	10/29/2022	ND	1.98	99.0	2.00	1.55		
Toluene*	<0.050	0.050	10/29/2022	ND	2.14	107	2.00	1.43		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.00	100	2.00	1.05		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.05	101	6.00	1.13		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	672	16.0	10/27/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	208	104	200	3.14	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	211	105	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.7 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 13 @ 4' (H224971-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2022	ND	1.98	99.0	2.00	1.55	
Toluene*	<0.050	0.050	10/29/2022	ND	2.14	107	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.00	100	2.00	1.05	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.05	101	6.00	1.13	
Total BTX	<0.300	0.300	10/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/27/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	208	104	200	3.14	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	211	105	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 14 @ 4' (H224971-04)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2022	ND	1.98	99.0	2.00	1.55	
Toluene*	<0.050	0.050	10/29/2022	ND	2.14	107	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.00	100	2.00	1.05	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.05	101	6.00	1.13	
Total BTX	<0.300	0.300	10/29/2022	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	1240	16.0	10/27/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	208	104	200	3.14	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	211	105	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.0 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 15 @ 4' (H224971-05)**

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	10/29/2022	ND	1.98	99.0	2.00	1.55		
Toluene*	<0.050	0.050	10/29/2022	ND	2.14	107	2.00	1.43		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.00	100	2.00	1.05		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.05	101	6.00	1.13		
Total BTEX	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	208	104	200	3.14	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	211	105	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.2 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 16 @ 4' (H224971-06)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2022	ND	1.98	99.0	2.00	1.55	
Toluene*	<0.050	0.050	10/29/2022	ND	2.14	107	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.00	100	2.00	1.05	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.05	101	6.00	1.13	
Total BTX	<0.300	0.300	10/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	10/27/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	208	104	200	3.14	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	211	105	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.8 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 17 @ 4' (H224971-07)**

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	10/29/2022	ND	1.98	99.0	2.00	1.55		
Toluene*	<0.050	0.050	10/29/2022	ND	2.14	107	2.00	1.43		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.00	100	2.00	1.05		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.05	101	6.00	1.13		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	10/27/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	208	104	200	3.14	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	211	105	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 98.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.3 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 18 @ 4' (H224971-08)**

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	10/29/2022	ND	1.98	99.0	2.00	1.55		
Toluene*	<0.050	0.050	10/29/2022	ND	2.14	107	2.00	1.43		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.00	100	2.00	1.05		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.05	101	6.00	1.13		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	208	104	200	3.14	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	211	105	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.3 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 19 @ 4' (H224971-09)**

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	10/29/2022	ND	1.98	99.0	2.00	1.55		
Toluene*	<0.050	0.050	10/29/2022	ND	2.14	107	2.00	1.43		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.00	100	2.00	1.05		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.05	101	6.00	1.13		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	208	104	200	3.14	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	211	105	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 78.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.4 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 20 @ 4' (H224971-10)**

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	10/29/2022	ND	1.98	99.0	2.00	1.55		
Toluene*	<0.050	0.050	10/29/2022	ND	2.14	107	2.00	1.43		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.00	100	2.00	1.05		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.05	101	6.00	1.13		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	208	104	200	3.14	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	211	105	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.3 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 21 @ 4' (H224971-11)**

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	10/29/2022	ND	1.98	99.0	2.00	1.55		
Toluene*	<0.050	0.050	10/29/2022	ND	2.14	107	2.00	1.43		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.00	100	2.00	1.05		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.05	101	6.00	1.13		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	208	104	200	3.14	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	211	105	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.5 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 22 @ 4' (H224971-12)**

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	10/29/2022	ND	1.98	99.0	2.00	1.55		
Toluene*	<0.050	0.050	10/29/2022	ND	2.14	107	2.00	1.43		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.00	100	2.00	1.05		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.05	101	6.00	1.13		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.9 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 23 @ 4' (H224971-13)**

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	10/29/2022	ND	2.05	103	2.00	3.66	
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15	
Total BTEx	<0.300	0.300	10/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 24 @ 4' (H224971-14)**

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	10/29/2022	ND	2.05	103	2.00	3.66		
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 82.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.9 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 25 @ 4' (H224971-15)**

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	10/29/2022	ND	2.05	103	2.00	3.66		
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15		
Total BTEX	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 87.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 26 @ 4' (H224971-16)**

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	10/29/2022	ND	2.05	103	2.00	3.66		
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	48.0	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 27 @ 4' (H224971-17)**

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	10/29/2022	ND	2.05	103	2.00	3.66		
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/27/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/21/2022	Sampling Date:	10/21/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	RED HILLS 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL, NM		

**Sample ID: PF 28 @ 4' (H224971-18)**

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	10/29/2022	ND	2.05	103	2.00	3.66	
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15	
Total BTEX	<0.300	0.300	10/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 85.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 29 @ 4' (H224971-19)**

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	10/29/2022	ND	2.05	103	2.00	3.66	
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15	
Total BTEx	<0.300	0.300	10/29/2022	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	416	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 76.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.9 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 30 @ 4' (H224971-20)**

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	10/29/2022	ND	2.05	103	2.00	3.66	
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15	
Total BTEx	<0.300	0.300	10/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	192	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.3 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 31 @ 4' (H224971-21)**

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	10/29/2022	ND	2.05	103	2.00	3.66		
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/27/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 32 @ 4' (H224971-22)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.66	
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15	
Total BTX	<0.300	0.300	10/29/2022	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	192	16.0	10/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.4 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 33 @ 4' (H224971-23)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.66	
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15	
Total BTX	<0.300	0.300	10/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	10/27/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 83.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.9 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 34 @ 4' (H224971-24)**

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	10/29/2022	ND	2.05	103	2.00	3.66		
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.8 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 35 @ 4' (H224971-25)**

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	10/29/2022	ND	2.05	103	2.00	3.66		
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15		
Total BTEx	<0.300	0.300	10/29/2022	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	48.0	16.0	10/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 81.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.9 % 46.3-178

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 36 @ 4' (H224971-26)**

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	10/29/2022	ND	2.05	103	2.00	3.66		
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	10/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 81.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.5 % 46.3-178

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 37 @ 4' (H224971-27)**

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	10/29/2022	ND	2.05	103	2.00	3.66		
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15		
Total BTEX	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	10/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 38 @ 4' (H224971-28)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.66	
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15	
Total BTX	<0.300	0.300	10/29/2022	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	880	16.0	10/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	10.9	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 39 @ 4' (H224971-29)**

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	10/29/2022	ND	2.05	103	2.00	3.66	
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15	
Total BTEx	<0.300	0.300	10/29/2022	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	464	16.0	10/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.5 % 46.3-178

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 40 @ 4' (H224971-30)**

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	10/29/2022	ND	2.05	103	2.00	3.66		
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	10/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 77.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.4 % 46.3-178

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 41 (H224971-31)**

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	10/29/2022	ND	2.05	103	2.00	3.66		
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	192	16.0	10/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	229	114	200	2.36	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	233	117	200	4.94	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.3 % 46.3-178

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 42 (H224971-32)**

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	10/29/2022	ND	2.05	103	2.00	3.66		
Toluene*	<0.050	0.050	10/29/2022	ND	2.24	112	2.00	5.66		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.05	103	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.22	104	6.00	4.15		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/27/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	179	89.7	200	2.01	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	183	91.7	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.0 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/21/2022	Sampling Date:	10/21/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	RED HILLS 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL, NM		

**Sample ID: PF 43 (H224971-33)**

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	10/29/2022	ND	1.93	96.7	2.00	2.14	
Toluene*	<0.050	0.050	10/29/2022	ND	2.15	108	2.00	3.10	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.03	101	2.00	1.72	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.10	102	6.00	1.13	
Total BTEX	<0.300	0.300	10/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	10/27/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	179	89.7	200	2.01	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	183	91.7	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 80.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.2 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/21/2022	Sampling Date:	10/21/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	RED HILLS 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL, NM		

**Sample ID: PF 44 (H224971-34)**

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	10/29/2022	ND	1.93	96.7	2.00	2.14		
Toluene*	<0.050	0.050	10/29/2022	ND	2.15	108	2.00	3.10		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.03	101	2.00	1.72		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.10	102	6.00	1.13		
Total BTEX	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	10/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	179	89.7	200	2.01	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	183	91.7	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 81.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.8 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 45 (H224971-35)**

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	10/29/2022	ND	1.93	96.7	2.00	2.14	
Toluene*	<0.050	0.050	10/29/2022	ND	2.15	108	2.00	3.10	
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.03	101	2.00	1.72	
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.10	102	6.00	1.13	
Total BTEX	<0.300	0.300	10/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	179	89.7	200	2.01	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	183	91.7	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 85.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.6 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/21/2022	Sampling Date:	10/21/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	RED HILLS 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL, NM		

**Sample ID: PEW 5 (H224971-36)**

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	10/29/2022	ND	1.93	96.7	2.00	2.14		
Toluene*	<0.050	0.050	10/29/2022	ND	2.15	108	2.00	3.10		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.03	101	2.00	1.72		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.10	102	6.00	1.13		
Total BTEX	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	10/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	179	89.7	200	2.01		
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	183	91.7	200	1.95		
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND						

Surrogate: 1-Chlorooctane 82.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.5 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/21/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PEW 6 (H224971-37)**

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	10/29/2022	ND	1.93	96.7	2.00	2.14		
Toluene*	<0.050	0.050	10/29/2022	ND	2.15	108	2.00	3.10		
Ethylbenzene*	<0.050	0.050	10/29/2022	ND	2.03	101	2.00	1.72		
Total Xylenes*	<0.150	0.150	10/29/2022	ND	6.10	102	6.00	1.13		
Total BTEx	<0.300	0.300	10/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	256	16.0	10/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	179	89.7	200	2.01	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	183	91.7	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 81.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.6 % 46.3-178

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## Routine

1 of 4

[illegible]





## ARDINAL LABORATORIES

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## Routine

2 of 4

[illegible]



## ARDINAL LABORATORIES

**101 East Marland, Hobbs, NM 88240**

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

## Routine

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3-f4

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: 2617 W Marland				Company: Menbourne																																					
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																																					
Phone #: (575) 264-9884 Fax #:				Address: 4801 Business Park Blvd																																					
Project #: 15507 Project Owner: Menbourne				City: Hobbs																																					
Project Name: Red Hills West 21 Fed Com 2H				State: NM Zip: 88240																																					
Project Location: Rural Lea County, NM				Phone #:																																					
Sampler Name: Eric Mojica				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)COMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE		ICE / 6000		OTHER:		DATE		TIME													
H224571				C		1						✓										✓		✓		10-21-22				✓											
21		PF 31e4		C		1						✓										✓		✓																	
22		PF 32e4		C		1						✓										✓		✓																	
23		PF 33e4		C		1						✓										✓		✓																	
24		PF 34e4		C		1						✓										✓		✓																	
25		PF 35e4		C		1						✓										✓		✓																	
26		PF 36e4		C		1						✓										✓		✓																	
27		PF 37e4		C		1						✓										✓		✓																	
28		PF 38e4		C		1						✓										✓		✓																	
29		PF 39e4		C		1						✓										✓		✓																	
30		PF 40e4		C		1						✓										✓		✓																	
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																									
Relinquished By: [Signature]				Date: 10-21-22		Time: 1550		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																									
Relinquished By:				Date:		Time:		Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																									
												REMARKS:																													
Delivered By: (Circle One)				#13		Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.																											
Sampler - UPS - Bus - Other:				6.4c/5.8c		Cool Intact				(Initials)																															
						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				[Signature]																															







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

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October 31, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/25/22 16:15.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 66 @ 0"-6" (H225021-01)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 103 % 83.7-114

Surrogate: Toluene-d8 96.4 % 95.3-107

Surrogate: 4-Bromofluorobenzene 101 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/28/2022	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	193	96.5	200	8.67	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	193	96.4	200	19.7	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 72.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.3 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 67 @ 0"-6" (H225021-02)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 102 % 83.7-114  
 Surrogate: Toluene-d8 97.7 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 99.7 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	193	96.5	200	8.67	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	193	96.4	200	19.7	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 77.4 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 90.0 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 68 @ 0"-6" (H225021-03)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 101 % 83.7-114  
 Surrogate: Toluene-d8 95.6 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 100 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	193	96.5	200	8.67	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	193	96.4	200	19.7	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 71.1 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 82.4 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 69 @ 0"-6" (H225021-04)**

BTEx 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEx	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 99.7 % 83.7-114  
 Surrogate: Toluene-d8 95.2 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 99.2 % 50.9-150

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	10/28/2022	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	193	96.5	200	8.67	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	193	96.4	200	19.7	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 80.4 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 93.2 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 70 @ 0"-6" (H225021-05)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 98.7 % 83.7-114  
 Surrogate: Toluene-d8 97.2 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 99.0 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	193	96.5	200	8.67	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	193	96.4	200	19.7	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 80.8 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 94.0 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 71 @ 0"-6" (H225021-06)**

BTEx 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 98.2 % 83.7-114  
 Surrogate: Toluene-d8 95.2 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 98.9 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	193	96.5	200	8.67	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	193	96.4	200	19.7	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 80.6 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 93.6 % 46.3-178

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 72 @ 0"-6" (H225021-07)**

BTEx 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 99.6 % 83.7-114  
 Surrogate: Toluene-d8 95.2 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	193	96.5	200	8.67	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	193	96.4	200	19.7	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 73 @ 0"-6" (H225021-08)**

BTEx 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 102 % 83.7-114

Surrogate: Toluene-d8 92.0 % 95.3-107

Surrogate: 4-Bromofluorobenzene 101 % 50.9-150

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 86.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.2 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 74 @ 0"-6" (H225021-09)**

BTEx 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 101 % 83.7-114  
 Surrogate: Toluene-d8 93.8 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 103 % 50.9-150

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 99.1 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 75 @ 0"-6" (H225021-10)**

BTEx 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEx	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 101 % 83.7-114  
 Surrogate: Toluene-d8 92.9 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 96.2 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PSW 2 (H225021-11)**

BTEx 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 99.5 % 83.7-114  
 Surrogate: Toluene-d8 93.4 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	34.5	10.0	10/28/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	13.2	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 98.8 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PSW 3 (H225021-12)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 96.0 % 83.7-114  
 Surrogate: Toluene-d8 97.6 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 99.1 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 99.2 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PSW 4 (H225021-13)**

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11		
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96		
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25		
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889		
Total BTEX	<0.150	0.150	10/29/2022	ND						

Surrogate: Dibromofluoromethane 102 % 83.7-114

Surrogate: Toluene-d8 95.6 % 95.3-107

Surrogate: 4-Bromofluorobenzene 103 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PWW 4 (H225021-14)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 102 % 83.7-114  
 Surrogate: Toluene-d8 95.9 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 99.0 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 89.9 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 93.6 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PWW 5 (H225021-15)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 101 % 83.7-114  
 Surrogate: Toluene-d8 98.6 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 101 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	41.9	10.0	10/28/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	11.7	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 96.4 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PWW 6 (H225021-16)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 105 % 83.7-114  
 Surrogate: Toluene-d8 95.4 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 101 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	1280	10.0	10/28/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	422	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 138 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PWW 7 (H225021-17)**

BTEX 8260B			mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11		
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96		
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25		
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889		
Total BTEX	<0.150	0.150	10/29/2022	ND						

Surrogate: Dibromofluoromethane 103 % 83.7-114  
 Surrogate: Toluene-d8 94.1 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 100 % 50.9-150

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/28/2022	ND	416	104	400	0.00	
TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	60.3	10.0	10/28/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	25.3	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 102 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PNW 3 (H225021-18)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 99.7 % 83.7-114  
 Surrogate: Toluene-d8 96.5 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 101 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	476	10.0	10/28/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	108	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 119 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PNW 4 (H225021-19)**

BTEx 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 99.7 % 83.7-114  
 Surrogate: Toluene-d8 94.6 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 103 % 50.9-150

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	38.1	10.0	10/28/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 110 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/25/2022  
 Reported: 10/31/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PNW 5 (H225021-20)**

BTEx 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.91	95.6	2.00	2.11	
Toluene*	<0.025	0.025	10/29/2022	ND	1.83	91.4	2.00	4.96	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.95	97.5	2.00	1.25	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.15	103	6.00	0.889	
Total BTEx	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 99.7 % 83.7-114  
 Surrogate: Toluene-d8 95.1 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 101 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	10/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	69.1	10.0	10/29/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	10.2	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 85.1 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 87.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## Routine

1 of 6

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																							
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																							
Address: 2617 W Marland				Company: Menbourne																																											
City: Hobbs State: NM Zip: 88240				Attn: Conner Walker																																											
Phone #: (575) 264-9884 Fax #:				Address: 4801 Business Park Blvd																																											
Project #: 15507 Project Owner: Menbourne				City: Hobbs																																											
Project Name: Red Hills West 21 Fed Com 2H				State: NM Zip: 88240																																											
Project Location: Rural Lea County, NM				Phone #:																																											
Sampler Name: Eric Mojica				Fax #:																																											
FOR LAB USE ONLY						MATRIX		PRESERV		SAMPLING																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE		ICE / GEL		OTHER:		DATE		TIME																			
H225021																																															
1		PF 66e0-6"		C		1						✓										✓		✓		10-25-22				✓		✓		✓													
2		PF 67e0-6"		C		1						✓										✓		✓						✓		✓		✓													
3		PF 68e0-6"		C		1						✓										✓		✓						✓		✓		✓													
4		PF 69e0-6"		C		1						✓										✓		✓						✓		✓		✓													
5		PF 70e0-6"		C		1						✓										✓		✓						✓		✓		✓													
6		PF 71e0-6"		C		1						✓										✓		✓						✓		✓		✓													
7		PF 72e0-6"		C		1						✓										✓		✓						✓		✓		✓													
8		PF 73e0-6"		C		1						✓										✓		✓						✓		✓		✓													
9		PF 74e0-6"		C		1						✓										✓		✓						✓		✓		✓													
10		PF 75e0-6"		C		1						✓										✓		✓						✓		✓		✓													
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived, unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																															
Relinquished By: Eric Mojica										Date: 10-25-22 Time: 1:15										Received By: [Signature]										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																	
Relinquished By:										Date:										Received By:										Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:																	
										Time:																				REMARKS:																	
Delivered By: (Circle One) 2-8 C.O.U.										Sample Condition Cool Intact										CHECKED BY: (Initials) [Signature]										Please email results and copy of CoC to pm@etechenv.com.																	
Sampler - UPS - Bus - Other: 2-22-#113										Yes No																																					





# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Routine

2+2

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: Menbourne																							
City: Hobbs State: NM Zip: 88240				Attn: Conner Walker																							
Phone #: (575) 264-9884 Fax #:				Address: 4801 Business Park Blvd																							
Project #: 15507 Project Owner: Menbourne				City: Hobbs																							
Project Name: Red Hills West 21 Fed Com 2H				State: NM Zip: 88240																							
Project Location: Rural Lea County, NM				Phone #:																							
Sampler Name: Eric Mojica				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL:	OTHER:	DATE	TIME													
H225021																											
11	PSW 2	C	1			✓				✓			10/25/22		✓	✓	✓										
12	PSW 3	C	1			✓				✓					✓	✓	✓										
13	PSW 4	C	1			✓				✓					✓	✓	✓										
14	PWW 4	C	1			✓				✓					✓	✓	✓										
15	PWW 5	C	1			✓				✓					✓	✓	✓										
16	PWW 6	C	1			✓				✓					✓	✓	✓										
17	PWW 7	C	1			✓				✓					✓	✓	✓										
18	PNW 3	C	1			✓				✓					✓	✓	✓										
19	PNW 4	C	1			✓				✓					✓	✓	✓										
20	PNW 5	C	1			✓				✓					✓	✓	✓										
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																											
Relinquished By:		Date: 10-25-22		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		<p>REMARKS:</p> <p>Please email results and copy of CoC to pm@etechenv.com.</p>																	
Time: 1415		Time: 1415		Received By: Spodkromer		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																			
Relinquished By:		Date:		Received By:																							
Time:																											
Delivered By: (Circle One) 2.F. C.O.U.				Sample Condition				CHECKED BY:																			
Sampler - UPS - Bus - Other: 22: #113				Cool Intact				(Initials)																			
				<input type="checkbox"/> Yes <input type="checkbox"/> No				SJR																			

FORM-006  
Revision 1.0

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



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

---

November 03, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/26/22 16:35.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/26/2022  
 Reported: 11/03/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/26/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PNW 1 - LEFT 32' (H225059-01)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/03/2022	ND	0.487	97.5	0.500	0.847	
Toluene*	<0.025	0.025	11/03/2022	ND	0.480	96.0	0.500	2.48	
Ethylbenzene*	<0.025	0.025	11/03/2022	ND	0.507	101	0.500	1.93	
Total Xylenes*	<0.075	0.075	11/03/2022	ND	1.53	102	1.50	2.24	
Total BTEX	<0.150	0.150	11/03/2022	ND					

Surrogate: Dibromofluoromethane 97.8 % 86.7-111

Surrogate: Toluene-d8 96.9 % 89.3-110

Surrogate: 4-Bromofluorobenzene 104 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>240</b>	16.0	10/31/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	167	83.6	200	0.952	
<b>DRO &gt;C10-C28*</b>	<b>612</b>	10.0	10/31/2022	ND	175	87.4	200	0.439	
<b>EXT DRO &gt;C28-C36</b>	<b>178</b>	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 71.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.3 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/26/2022  
 Reported: 11/03/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/26/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PNW 1 - RIGHT 32' (H225059-02)**

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	11/03/2022	ND	0.487	97.5	0.500	0.847		
Toluene*	<0.025	0.025	11/03/2022	ND	0.480	96.0	0.500	2.48		
Ethylbenzene*	<0.025	0.025	11/03/2022	ND	0.507	101	0.500	1.93		
Total Xylenes*	<0.075	0.075	11/03/2022	ND	1.53	102	1.50	2.24		
Total BTEX	<0.150	0.150	11/03/2022	ND						

Surrogate: Dibromofluoromethane 96.1 % 86.7-111  
 Surrogate: Toluene-d8 96.2 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 103 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/31/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	167	83.6	200	0.952	
DRO >C10-C28*	121	10.0	10/31/2022	ND	175	87.4	200	0.439	
EXT DRO >C28-C36	20.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 103 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/26/2022  
 Reported: 11/03/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/26/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PNW 6 (H225059-03)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/03/2022	ND	0.487	97.5	0.500	0.847	
Toluene*	<0.025	0.025	11/03/2022	ND	0.480	96.0	0.500	2.48	
Ethylbenzene*	<0.025	0.025	11/03/2022	ND	0.507	101	0.500	1.93	
Total Xylenes*	<0.075	0.075	11/03/2022	ND	1.53	102	1.50	2.24	
Total BTEX	<0.150	0.150	11/03/2022	ND					

Surrogate: Dibromofluoromethane 95.3 % 86.7-111  
 Surrogate: Toluene-d8 97.9 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 102 % 88.2-108

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	10/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	167	83.6	200	0.952	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	175	87.4	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 84.0 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 94.8 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/26/2022  
 Reported: 11/03/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 76 @ 0"-6" (H225059-04)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/03/2022	ND	0.487	97.5	0.500	0.847	
Toluene*	<0.025	0.025	11/03/2022	ND	0.480	96.0	0.500	2.48	
Ethylbenzene*	<0.025	0.025	11/03/2022	ND	0.507	101	0.500	1.93	
Total Xylenes*	<0.075	0.075	11/03/2022	ND	1.53	102	1.50	2.24	
Total BTEX	<0.150	0.150	11/03/2022	ND					

Surrogate: Dibromofluoromethane 94.8 % 86.7-111  
 Surrogate: Toluene-d8 97.0 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 101 % 88.2-108

Chloride, SM4500Cl-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	10/31/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	167	83.6	200	0.952	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	175	87.4	200	0.439	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 103 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/26/2022  
 Reported: 11/03/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/26/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 88 @ 1' (H225059-05)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/03/2022	ND	0.487	97.5	0.500	0.847	
Toluene*	<0.025	0.025	11/03/2022	ND	0.480	96.0	0.500	2.48	
Ethylbenzene*	<0.025	0.025	11/03/2022	ND	0.507	101	0.500	1.93	
Total Xylenes*	<0.075	0.075	11/03/2022	ND	1.53	102	1.50	2.24	
Total BTEX	<0.150	0.150	11/03/2022	ND					

Surrogate: Dibromofluoromethane 95.6 % 86.7-111  
 Surrogate: Toluene-d8 97.1 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 101 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/31/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	173	86.7	200	0.155	
DRO >C10-C28*	37.0	10.0	10/31/2022	ND	179	89.7	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 73.5 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 90.3 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/26/2022  
 Reported: 11/03/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/26/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 89 @ 1' (H225059-06)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/03/2022	ND	0.487	97.5	0.500	0.847	
Toluene*	<0.025	0.025	11/03/2022	ND	0.480	96.0	0.500	2.48	
Ethylbenzene*	<0.025	0.025	11/03/2022	ND	0.507	101	0.500	1.93	
Total Xylenes*	<0.075	0.075	11/03/2022	ND	1.53	102	1.50	2.24	
Total BTEX	<0.150	0.150	11/03/2022	ND					

Surrogate: Dibromofluoromethane 97.1 % 86.7-111  
 Surrogate: Toluene-d8 99.2 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 105 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/31/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	173	86.7	200	0.155	
DRO >C10-C28*	1180	10.0	10/31/2022	ND	179	89.7	200	2.15	
EXT DRO >C28-C36	184	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 137 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/26/2022  
 Reported: 11/03/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/26/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 90 @ 1' (H225059-07)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/03/2022	ND	0.487	97.5	0.500	0.847	
Toluene*	<0.025	0.025	11/03/2022	ND	0.480	96.0	0.500	2.48	
Ethylbenzene*	<0.025	0.025	11/03/2022	ND	0.507	101	0.500	1.93	
Total Xylenes*	<0.075	0.075	11/03/2022	ND	1.53	102	1.50	2.24	
Total BTEX	<0.150	0.150	11/03/2022	ND					

Surrogate: Dibromofluoromethane 95.1 % 86.7-111  
 Surrogate: Toluene-d8 95.8 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 103 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/31/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	173	86.7	200	0.155	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	179	89.7	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 104 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/26/2022  
 Reported: 11/03/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/26/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 91 @ 1' (H225059-08)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/03/2022	ND	0.487	97.5	0.500	0.847	
Toluene*	<0.025	0.025	11/03/2022	ND	0.480	96.0	0.500	2.48	
Ethylbenzene*	<0.025	0.025	11/03/2022	ND	0.507	101	0.500	1.93	
Total Xylenes*	<0.075	0.075	11/03/2022	ND	1.53	102	1.50	2.24	
Total BTX	<0.150	0.150	11/03/2022	ND					

Surrogate: Dibromofluoromethane 95.3 % 86.7-111

Surrogate: Toluene-d8 97.3 % 89.3-110

Surrogate: 4-Bromofluorobenzene 103 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/31/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	173	86.7	200	0.155	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	179	89.7	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 78.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.5 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/26/2022  
 Reported: 11/03/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/26/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 92 @ 1' (H225059-09)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/03/2022	ND	0.487	97.5	0.500	0.847	
Toluene*	<0.025	0.025	11/03/2022	ND	0.480	96.0	0.500	2.48	
Ethylbenzene*	<0.025	0.025	11/03/2022	ND	0.507	101	0.500	1.93	
Total Xylenes*	<0.075	0.075	11/03/2022	ND	1.53	102	1.50	2.24	
Total BTEX	<0.150	0.150	11/03/2022	ND					

Surrogate: Dibromofluoromethane 95.1 % 86.7-111  
 Surrogate: Toluene-d8 97.6 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 103 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	10/31/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	173	86.7	200	0.155	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	179	89.7	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 90.7 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/26/2022  
 Reported: 11/03/2022  
 Project Name: RED HILLS 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 10/26/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 93 @ 1' (H225059-10)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/03/2022	ND	0.487	97.5	0.500	0.847	
Toluene*	<0.025	0.025	11/03/2022	ND	0.480	96.0	0.500	2.48	
Ethylbenzene*	<0.025	0.025	11/03/2022	ND	0.507	101	0.500	1.93	
Total Xylenes*	<0.075	0.075	11/03/2022	ND	1.53	102	1.50	2.24	
Total BTEX	<0.150	0.150	11/03/2022	ND					

Surrogate: Dibromofluoromethane 96.2 % 86.7-111  
 Surrogate: Toluene-d8 98.4 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 103 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/31/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	173	86.7	200	0.155	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	179	89.7	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 93.1 % 46.3-178

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



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

## Routine

FORM-006  
Revision 1.0

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





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

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November 04, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/27/22 15:36.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/27/2022	Sampling Date:	10/27/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 77 @ 4' (H225087-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	1.90	94.9	2.00	3.01		
Toluene*	<0.050	0.050	11/04/2022	ND	2.16	108	2.00	1.14		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.02	101	2.00	1.28		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.09	101	6.00	2.33		
Total BTX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	11/01/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	192	96.1	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	193	96.5	200	4.15	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/27/2022	Sampling Date:	10/27/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 78 @ 4' (H225087-02)**

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	11/04/2022	ND	1.90	94.9	2.00	3.01		
Toluene*	<0.050	0.050	11/04/2022	ND	2.16	108	2.00	1.14		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.02	101	2.00	1.28		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.09	101	6.00	2.33		
Total BTEX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	11/01/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	192	96.1	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	193	96.5	200	4.15	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 96.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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\*=Accredited Analyte

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



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/27/2022	Sampling Date:	10/27/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 79 @ 4' (H225087-03)**

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	11/04/2022	ND	1.90	94.9	2.00	3.01		
Toluene*	<0.050	0.050	11/04/2022	ND	2.16	108	2.00	1.14		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.02	101	2.00	1.28		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.09	101	6.00	2.33		
Total BTEX	<0.300	0.300	11/04/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	11/01/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	192	96.1	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	193	96.5	200	4.15	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/27/2022	Sampling Date:	10/27/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 80 @ 3' (H225087-04)**

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	11/04/2022	ND	1.90	94.9	2.00	3.01		
Toluene*	<0.050	0.050	11/04/2022	ND	2.16	108	2.00	1.14		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.02	101	2.00	1.28		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.09	101	6.00	2.33		
Total BTEX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	11/01/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	192	96.1	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	193	96.5	200	4.15	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/27/2022	Sampling Date:	10/27/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 81 @ 4' (H225087-05)**

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	11/04/2022	ND	1.90	94.9	2.00	3.01		
Toluene*	<0.050	0.050	11/04/2022	ND	2.16	108	2.00	1.14		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.02	101	2.00	1.28		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.09	101	6.00	2.33		
Total BTEx	<0.300	0.300	11/04/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	11/01/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	192	96.1	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	193	96.5	200	4.15	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/27/2022	Sampling Date:	10/27/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 82 @ 4' (H225087-06)**

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	11/04/2022	ND	1.90	94.9	2.00	3.01		
Toluene*	<0.050	0.050	11/04/2022	ND	2.16	108	2.00	1.14		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.02	101	2.00	1.28		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.09	101	6.00	2.33		
Total BTEX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/01/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	192	96.1	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	193	96.5	200	4.15	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 87.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/27/2022	Sampling Date:	10/27/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 83 @ 4' (H225087-07)**

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	11/04/2022	ND	1.90	94.9	2.00	3.01		
Toluene*	<0.050	0.050	11/04/2022	ND	2.16	108	2.00	1.14		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.02	101	2.00	1.28		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.09	101	6.00	2.33		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/01/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	192	96.1	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	193	96.5	200	4.15	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/27/2022	Sampling Date:	10/27/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 84 @ 4' (H225087-08)**

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	11/04/2022	ND	1.90	94.9	2.00	3.01		
Toluene*	<0.050	0.050	11/04/2022	ND	2.16	108	2.00	1.14		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.02	101	2.00	1.28		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.09	101	6.00	2.33		
Total BTEX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	11/01/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	192	96.1	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	193	96.5	200	4.15	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/27/2022	Sampling Date:	10/27/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 85 @ 4' (H225087-09)**

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	11/04/2022	ND	1.90	94.9	2.00	3.01		
Toluene*	<0.050	0.050	11/04/2022	ND	2.16	108	2.00	1.14		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.02	101	2.00	1.28		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.09	101	6.00	2.33		
Total BTEX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	592	16.0	11/01/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	192	96.1	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	193	96.5	200	4.15	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/27/2022	Sampling Date:	10/27/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 86 @ 4' (H225087-10)**

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	11/04/2022	ND	1.90	94.9	2.00	3.01		
Toluene*	<0.050	0.050	11/04/2022	ND	2.16	108	2.00	1.14		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.02	101	2.00	1.28		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.09	101	6.00	2.33		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	11/01/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	192	96.1	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	193	96.5	200	4.15	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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



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### Notes and Definitions

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

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

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



**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## Routine

[illegible]



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

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November 07, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/28/22 15:37.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/28/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 87 @ 3' (H225104-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2022	ND	2.01	101	2.00	6.30	
Toluene*	<0.050	0.050	11/04/2022	ND	2.09	104	2.00	7.00	
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.09	104	2.00	7.01	
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.44	107	6.00	7.73	
Total BTX	<0.300	0.300	11/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	11/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	194	96.8	200	1.10	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	177	88.7	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 112 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/28/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 94 @ 1' (H225104-02)**

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	11/04/2022	ND	2.01	101	2.00	6.30		
Toluene*	<0.050	0.050	11/04/2022	ND	2.09	104	2.00	7.00		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.09	104	2.00	7.01		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.44	107	6.00	7.73		
Total BTEX	<0.300	0.300	11/04/2022	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	288	16.0	11/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	194	96.8	200	1.10	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	177	88.7	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/28/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 95 @ 4' (H225104-03)**

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	11/04/2022	ND	2.01	101	2.00	6.30		
Toluene*	<0.050	0.050	11/04/2022	ND	2.09	104	2.00	7.00		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.09	104	2.00	7.01		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.44	107	6.00	7.73		
Total BTEX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	11/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	194	96.8	200	1.10	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	177	88.7	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/28/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 96 @ 4' (H225104-04)**

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	11/04/2022	ND	2.01	101	2.00	6.30		
Toluene*	<0.050	0.050	11/04/2022	ND	2.09	104	2.00	7.00		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.09	104	2.00	7.01		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.44	107	6.00	7.73		
Total BTEx	<0.300	0.300	11/04/2022	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	656	16.0	11/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	194	96.8	200	1.10	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	177	88.7	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/28/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 97 @ 1' (H225104-05)**

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	11/04/2022	ND	2.01	101	2.00	6.30		
Toluene*	<0.050	0.050	11/04/2022	ND	2.09	104	2.00	7.00		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.09	104	2.00	7.01	GC-NC	
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.44	107	6.00	7.73		
Total BTEx	<0.300	0.300	11/04/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	46.9	10.0	11/01/2022	ND	194	96.8	200	1.10	
DRO >C10-C28*	3750	10.0	11/01/2022	ND	177	88.7	200	3.39	
EXT DRO >C28-C36	692	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/28/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 98 @ 4' (H225104-06)**

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	11/04/2022	ND	2.01	101	2.00	6.30	
Toluene*	<0.050	0.050	11/04/2022	ND	2.09	104	2.00	7.00	GC-NC
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.09	104	2.00	7.01	
Total Xylenes*	1.87	0.150	11/04/2022	ND	6.44	107	6.00	7.73	GC-NC1
Total BTEx	1.87	0.300	11/04/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 131 % 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	1630	16.0	11/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	421	10.0	11/01/2022	ND	194	96.8	200	1.10	
DRO >C10-C28*	4390	10.0	11/01/2022	ND	177	88.7	200	3.39	
EXT DRO >C28-C36	658	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 151 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/28/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 99 @ 4' (H225104-07)**

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	11/04/2022	ND	1.89	94.6	2.00	2.67	QM-07	
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	11/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	194	96.8	200	1.10	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	177	88.7	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/28/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 100 @ 1' (H225104-08)**

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	11/04/2022	ND	1.89	94.6	2.00	2.67		
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/01/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	194	96.8	200	1.10	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	177	88.7	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/28/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 101 @ 1' (H225104-09)**

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	11/04/2022	ND	1.89	94.6	2.00	2.67		
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.7 % 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	176	16.0	11/01/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	194	96.8	200	1.10	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	177	88.7	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.2 % 46.3-178

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/28/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 102 @ 4' (H225104-10)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2022	ND	1.89	94.6	2.00	2.67	
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76	
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813	
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250	
Total BTX	<0.300	0.300	11/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/01/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	194	96.8	200	1.10	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	177	88.7	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/28/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 103 @ 4' (H225104-11)**

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	11/04/2022	ND	1.89	94.6	2.00	2.67		
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/01/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	194	96.8	200	1.10	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	177	88.7	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/28/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 104 @ 4' (H225104-12)**

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	11/04/2022	ND	1.89	94.6	2.00	2.67	
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76	
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813	
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250	
Total BTEX	<0.300	0.300	11/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	11/01/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	194	96.8	200	1.10	
DRO >C10-C28*	21.8	10.0	11/01/2022	ND	177	88.7	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/28/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 105 @ 1' (H225104-13)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2022	ND	1.89	94.6	2.00	2.67	
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76	
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813	
Total Xylenes*	3.26	0.150	11/04/2022	ND	6.04	101	6.00	0.250	GC-NC1
Total BTEX	3.26	0.300	11/04/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 298 % 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	80.0	16.0	11/01/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	549	10.0	11/02/2022	ND	194	96.8	200	1.10	
DRO >C10-C28*	6140	10.0	11/02/2022	ND	177	88.7	200	3.39	
EXT DRO >C28-C36	881	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 265 % 45.3-161

Surrogate: 1-Chlorooctadecane 173 % 46.3-178

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Routine

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1+2

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: Menbournie																							
City: Hobbs State: NM Zip: 88240				Attn: Conner Walker																							
Phone #: (575) 264-9884 Fax #:				Address: 4801 Business Pk Blvd																							
Project #: 15507 Project Owner: Menbournie				City: Hobbs																							
Project Name: Red Hills West 21 Fed Com 2H				State: NM Zip: 88240																							
Project Location: Rural Lea County, NM				Phone #:																							
Sampler Name: Eric Mojica				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / SOOL	OTHER:	DATE	TIME													
H225104																											
1	PF 87e3	C	1			✓				✓			10-28-22		✓	✓	✓										
2	PF 94e1	C	1			✓				✓					✓	✓	✓										
3	PF 95e4	C	1			✓				✓					✓	✓	✓										
4	PF 96e4	C	1			✓				✓					✓	✓	✓										
5	PF 97e1	C	1			✓				✓					✓	✓	✓										
6	PF 98e4	C	1			✓				✓					✓	✓	✓										
7	PF 99e4	C	1			✓				✓					✓	✓	✓										
8	PF 100e1	C	1			✓				✓					✓	✓	✓										
9	PF 101e1	C	1			✓				✓					✓	✓	✓										
10	PF 102e4	C	1			✓				✓					✓	✓	✓										

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Relinquished By:	Date: 10-28-22	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Eric Mojica</i>	Time: 1537	<i>Spodkiewicz</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One) 3.75 C.O.U.	Sample Condition	CHECKED BY:	Please email results and copy of CoC to pm@etechenv.com.	
Sampler - UPS - Bus - Other: 3.12 #113	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <i>3.2</i>		

FORM-006  
Revision 1.0

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



**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## Routine

2 of 2

[illegible]





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

---

November 07, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/31/22 16:36.

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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 46 @ 1.5' (H225123-01)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14		
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	194	97.1	200	1.48	
DRO >C10-C28*	912	10.0	11/02/2022	ND	209	104	200	7.64	
EXT DRO >C28-C36	147	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 59.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.7 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 47 @ 1.5' (H225123-02)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14		
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	194	97.1	200	1.48	
DRO >C10-C28*	651	10.0	11/02/2022	ND	209	104	200	7.64	
EXT DRO >C28-C36	115	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 67.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.8 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 48 @ 1.5' (H225123-03)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14		
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66		
Total BTEx	<0.300	0.300	11/07/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	194	97.1	200	1.48	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	209	104	200	7.64	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 74.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.5 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 49 @ 1.5' (H225123-04)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14		
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	194	97.1	200	1.48	
DRO >C10-C28*	730	10.0	11/02/2022	ND	209	104	200	7.64	
EXT DRO >C28-C36	138	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 69.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 138 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 50 @ 1.5' (H225123-05)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14	
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66	
Total BTEX	<0.300	0.300	11/07/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	194	97.1	200	1.48	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	209	104	200	7.64	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 72.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.3 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 51 @ 1.5' (H225123-06)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14		
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	15.5	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 70.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 70.0 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 52 @ 1.5' (H225123-07)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14		
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	351	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	143	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 53 @ 1.5' (H225123-08)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14		
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.9 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 54 @ 1.5' (H225123-09)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14		
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 82.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.8 % 46.3-178

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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 55 @ 1.5' (H225123-10)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14		
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.6 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 56 @ 1.5' (H225123-11)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14		
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66		
Total BTEX	<0.300	0.300	11/07/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	11.3	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 82.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.5 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 57 @ 1.5' (H225123-12)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14	
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66	
Total BTEX	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/02/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	312	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	89.5	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.3 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 58 @ 1.5' (H225123-13)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14		
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.1 % 46.3-178

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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 59 @ 1.5' (H225123-14)**

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	11/07/2022	ND	1.98	99.2	2.00	2.14		
Toluene*	<0.050	0.050	11/07/2022	ND	2.08	104	2.00	2.61		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.01	101	2.00	2.13		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.11	102	6.00	1.66		
Total BTEx	<0.300	0.300	11/07/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/02/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	690	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	174	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 73.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.2 % 46.3-178

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 60 @ 1.5' (H225123-15)**

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	11/07/2022	ND	2.00	100	2.00	0.388		
Toluene*	<0.050	0.050	11/07/2022	ND	2.09	105	2.00	0.129		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.03	101	2.00	0.699		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.21	103	6.00	2.08		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 77.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.1 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 61 @ 1.5' (H225123-16)**

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	11/07/2022	ND	2.00	100	2.00	0.388	
Toluene*	<0.050	0.050	11/07/2022	ND	2.09	105	2.00	0.129	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.03	101	2.00	0.699	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.21	103	6.00	2.08	
Total BTEX	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/02/2022	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	93.7	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	22.9	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.2 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 62 @ 1.5' (H225123-17)**

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	11/07/2022	ND	2.00	100	2.00	0.388		
Toluene*	<0.050	0.050	11/07/2022	ND	2.09	105	2.00	0.129		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.03	101	2.00	0.699		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.21	103	6.00	2.08		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	78.5	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	17.4	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.4 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 63 @ 1.5' (H225123-18)**

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	11/07/2022	ND	2.00	100	2.00	0.388		
Toluene*	<0.050	0.050	11/07/2022	ND	2.09	105	2.00	0.129		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.03	101	2.00	0.699		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.21	103	6.00	2.08		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 99.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 64 @ 1.5' (H225123-19)**

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	11/07/2022	ND	2.00	100	2.00	0.388		
Toluene*	<0.050	0.050	11/07/2022	ND	2.09	105	2.00	0.129		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.03	101	2.00	0.699		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.21	103	6.00	2.08		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	266	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	67.3	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 65 @ 1.5' (H225123-20)**

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	11/07/2022	ND	2.00	100	2.00	0.388		
Toluene*	<0.050	0.050	11/07/2022	ND	2.09	105	2.00	0.129		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.03	101	2.00	0.699		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.21	103	6.00	2.08		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 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	208	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	66.3	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	13.4	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.9 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PEW 7 (H225123-21)**

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	11/07/2022	ND	2.00	100	2.00	0.388		
Toluene*	<0.050	0.050	11/07/2022	ND	2.09	105	2.00	0.129		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.03	101	2.00	0.699		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.21	103	6.00	2.08		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 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	176	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.4 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PNW 7 (H225123-22)**

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	11/07/2022	ND	2.00	100	2.00	0.388	
Toluene*	<0.050	0.050	11/07/2022	ND	2.09	105	2.00	0.129	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	2.03	101	2.00	0.699	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.21	103	6.00	2.08	
Total BTEX	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/02/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	247	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	61.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 77.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager





## CARDINAL LABORATORIES

**101 East Marland, Hobbs, NM 88240**

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

## Routine

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1. f 3

[illegible]







**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

## Routine

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3043

~~Page 27 of 27~~

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Lance Crenshaw

Address: 2617 W Mariand

City: Hobbs State: NM Zip: 88240

Phone #: (575) 264-9884 Fax #:

Project #: 15507 Project Owner: Mowbourne

Project Name: Red Hills West 21 Fed Com 2H

Project Location: Rural Lea County, NM

Sampler Name: Eric Mojica

BILL TO

P.O. #:

Company Mowbourne

Attn: Conner Walker

Address: 4801 Business Pkwy

City: Hobbs

State: NM Zip: 88240

Phone #:

Fax #:

ANALYSIS REQUEST

Chloride

TPH (8015M)

BTEX (8021B)

FOR LAB USE ONLY

Lab I.D. H225123

Sample I.D. PEW7 PNW7

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

MATRIX

PRESERV.

SAMPLING

DATE

TIME

Relinquished By: Eric Mojica

Date: 10-31-22

Time: 1636

Received By: Tamara Aldrete

Date:

Time:

Delivered By: (Circle One) UPS - Bus - Other: 5.60 / 5.00

Sample Condition

Cool Intact

Yes No Yes No

CHECKED BY: (Initials)

Phone Result: Yes No

Fax Result: Yes No

REMARKS:

Add'l Phone #:

Add'l Fax #:

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

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



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

November 07, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 11/03/22 15:27.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/03/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 11/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 1 @ 6' (H225203-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/04/2022	ND	416	104	400	0.00	

**Sample ID: PF 3 @ 6' (H225203-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/04/2022	ND	416	104	400	0.00	

**Sample ID: PF 5 @ 6' (H225203-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	11/04/2022	ND	416	104	400	0.00	

**Sample ID: PF 6 @ 6' (H225203-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/04/2022	ND	416	104	400	0.00	

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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/03/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 11/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 7 @ 6' (H225203-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	11/04/2022	ND	416	104	400	0.00	

**Sample ID: PNW 1 - LEFT 32 - A (H225203-06)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2022	ND	196	97.8	200	1.35	
DRO >C10-C28*	37.9	10.0	11/06/2022	ND	186	93.1	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	11/06/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

**Sample ID: PNW 1 - RIGHT 32 - A (H225203-07)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2022	ND	196	97.8	200	1.35	
DRO >C10-C28*	<10.0	10.0	11/06/2022	ND	186	93.1	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	11/06/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/03/2022  
 Reported: 11/07/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 89 @ 2' (H225203-08)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2022	ND	196	97.8	200	1.35	
DRO >C10-C28*	<10.0	10.0	11/06/2022	ND	186	93.1	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	11/06/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	100 %	45.3-161							
Surrogate: 1-Chlorooctadecane	115 %	46.3-178							

**Sample ID: PWW 6 - A (H225203-09)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2022	ND	196	97.8	200	1.35	
<b>DRO &gt;C10-C28*</b>	<b>33.2</b>	10.0	11/06/2022	ND	186	93.1	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	11/06/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	87.6 %	45.3-161							
Surrogate: 1-Chlorooctadecane	103 %	46.3-178							

**Sample ID: PF 12 @ 7' (H225203-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/04/2022	ND	416	104	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## ARDINAL LABORATORIES

**101 East Marland, Hobbs, NM 88240**

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

## Routine

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																											
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																											
Address: 2617 W Marland				Company: Mewbourne																															
City: Hobbs State: NM Zip: 88240				Attn: Conner Walker																															
Phone #: (575) 264-9884 Fax #:				Address: 4801 Business Park Blvd																															
Project #: 15507 Project Owner: Mewbourne				City: Hobbs																															
Project Name: Red Hills West 21 Fed Com 2H				State: NM Zip: 88240																															
Project Location: Rural Lea County, NM				Phone #:																															
Sampler Name: Eric Mojica				Fax #:																															
FOR LAB USE ONLY																																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE		ICE / 1000F		OTHER:		DATE		TIME							
H25203																																			
1 PF1e6				C		1						✓										✓				11-2-22				✓		X		X	
2 PF3e6				C		1						✓										✓								✓					
3 PF5e6				C		1						✓										✓								✓					
4 PF6e6				C		1						✓										✓								✓					
5 PF7e6				C		1						✓										✓								✓					
6 PNWL-Left 32'-A				C		1						✓										✓				11-3-22				✓					
7 PNWL-Right 32'-A				C		1						✓										✓								✓					
8 PF8902				C		1						✓										✓								✓					
9 PNWL-6-A				C		1						✓										✓								✓					
10 PF1207				C		1						✓										✓								✓					
<p>PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																			
Relinquished By: Eric Mojica				Date: 11-3-22				Received By: S. Rodriguez				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:											
Relinquished By:				Date:				Received By:				REMARKS:																							
Delivered By: (Circle One) 6.18 C.O.V.				Sample Condition				CHECKED BY: (initials)																											
Sampler - UPS - Bus - Other: 55: #113				Cool Intact				8/2																											
				Yes <input type="checkbox"/> No <input type="checkbox"/>																															



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

---

November 09, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 11/04/22 14:49.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/04/2022  
 Reported: 11/09/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 13 @ 7' (H225231-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/08/2022	ND	432	108	400	0.00	

**Sample ID: PF 14 @ 7' (H225231-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/08/2022	ND	416	104	400	3.92	

**Sample ID: PF 16 @ 5' (H225231-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/08/2022	ND	416	104	400	3.92	

**Sample ID: PF 20 @ 5' (H225231-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/08/2022	ND	416	104	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/04/2022  
 Reported: 11/09/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PF 33 @ 5' (H225231-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	11/08/2022	ND	416	104	400	3.92		

**Sample ID: PF 36 @ 6' (H225231-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	11/08/2022	ND	416	104	400	3.92		

**Sample ID: PF 37 @ 6' (H225231-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/08/2022	ND	416	104	400	3.92		

**Sample ID: PF 38 @ 6' (H225231-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/08/2022	ND	416	104	400	3.92		

**Sample ID: PF 40 @ 6' (H225231-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/08/2022	ND	416	104	400	3.92		

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  
LANCE CRENSHAW  
2617 W MARLAND  
HOBBS NM, 88240  
Fax To:

Received: 11/04/2022  
Reported: 11/09/2022  
Project Name: RED HILLS WEST 21 FED COM 2H  
Project Number: 15507  
Project Location: MEWBOURNE - JAL, NM

Sampling Date: 11/04/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PF 43 @ 6' (H225231-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/08/2022	ND	416	104	400	3.92		

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

## Routine

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

[illegible]



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

---

November 10, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 11/08/22 15:28.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/08/2022	Sampling Date:	11/08/2022
Reported:	11/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 77 @ 8' (H225276-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/09/2022	ND	432	108	400	3.77	

**Sample ID: PF 78 @ 8' (H225276-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/09/2022	ND	432	108	400	3.77	

**Sample ID: PF 79 @ 8' (H225276-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/09/2022	ND	432	108	400	3.77	

**Sample ID: PF 80 @ 8' (H225276-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/09/2022	ND	432	108	400	3.77	

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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/08/2022  
 Reported: 11/10/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 11/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 84 @ 5' (H225276-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	11/09/2022	ND	432	108	400	3.77		

**Sample ID: PF 87 @ 5' (H225276-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/09/2022	ND	432	108	400	3.77	

**Sample ID: PF 95 @ 6' (H225276-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/09/2022	ND	432	108	400	3.77		

**Sample ID: PF 96 @ 5' (H225276-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/09/2022	ND	432	108	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/08/2022  
 Reported: 11/10/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 11/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 98 @ 5' (H225276-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/09/2022	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2022	ND	200	100	200	0.699	
DRO >C10-C28*	<10.0	10.0	11/09/2022	ND	179	89.3	200	0.818	
EXT DRO >C28-C36	<10.0	10.0	11/09/2022	ND					
Surrogate: 1-Chlorooctane	105 %	45.3-161							
Surrogate: 1-Chlorooctadecane	122 %	46.3-178							

**Sample ID: PF 99 @ 6' (H225276-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	11/09/2022	ND	432	108	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

*Rush!*

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

Page 6 of 6

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
Project Manager: <u>Lance Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 W Marland				Company: <u>Menbournie</u>																			
City: Hobbs State: NM Zip: 88240				Attn: <u>Conner Walker</u>																			
Phone #: (575) 264-9884 Fax #:				Address: <u>4801 Business Park Blvd</u>																			
Project #: <u>15507</u> Project Owner: <u>Menbournie</u>				City: <u>Hobbs</u>																			
Project Name: <u>Red Hills West 21 Fed Com 2H</u>				State: <u>NM</u> Zip: <u>88240</u>																			
Project Location: <u>Rural Lea County, NM</u>				Phone #:																			
Sampler Name: <u>Eric Mojica</u>				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	DATE	TIME									
<u>H225274</u>	<u>11/8/22</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>11-8-22</u>		<u>✓</u>								
<u>1</u>	<u>PF 77e8</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>11-8-22</u>		<u>✓</u>								
<u>2</u>	<u>PF 78e8</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>11-8-22</u>		<u>✓</u>								
<u>3</u>	<u>PF 79e8</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>11-8-22</u>		<u>✓</u>								
<u>4</u>	<u>PF 80e8</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>11-8-22</u>		<u>✓</u>								
<u>5</u>	<u>PF 84e5</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>11-8-22</u>		<u>✓</u>								
<u>6</u>	<u>PF 87e5</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>11-8-22</u>		<u>✓</u>								
<u>7</u>	<u>PF 95e6</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>11-8-22</u>		<u>✓</u>								
<u>8</u>	<u>PF 96e5</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>11-8-22</u>		<u>✓</u>								
<u>9</u>	<u>PF 98e5</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>11-8-22</u>		<u>✓</u>	<u>✓</u>							
<u>10</u>	<u>PF 99e6</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>11-8-22</u>		<u>✓</u>								

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Relinquished By: <u>Eric Mojica</u>	Date: <u>11-8-22</u> Time: <u>1528</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: Add'l Fax #:
Relinquished By:	Date: Time:	Received By:	REMARKS:	

Delivered By: (Circle One) UPS Bus Other 6.6c / 6.0c #113

Sample Condition: Cool ☒ Yes ☐ No Intact ☒ Yes ☐ No

CHECKED BY: (Initials) JO

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

FORM-006  
Revision 1.0

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



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

---

November 10, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 11/09/22 15:32.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/09/2022	Sampling Date:	11/09/2022
Reported:	11/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 97 @ 2' (H225305-01)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2022	ND	203	101	200	3.85	
DRO >C10-C28*	<10.0	10.0	11/10/2022	ND	198	99.1	200	0.119	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					
Surrogate: 1-Chlorooctane	89.9 %	45.3-161							
Surrogate: 1-Chlorooctadecane	101 %	46.3-178							

**Sample ID: PF 104 @ 5' (H225305-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/10/2022	ND	416	104	400	0.00		

**Sample ID: PF 105 @ 2' (H225305-03)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2022	ND	203	101	200	3.85	
DRO >C10-C28*	<10.0	10.0	11/10/2022	ND	198	99.1	200	0.119	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					
Surrogate: 1-Chlorooctane	82.7 %	45.3-161							
Surrogate: 1-Chlorooctadecane	92.3 %	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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/09/2022	Sampling Date:	11/09/2022
Reported:	11/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PNW 7 - A (H225305-04)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2022	ND	203	101	200	3.85	
DRO >C10-C28*	<10.0	10.0	11/10/2022	ND	198	99.1	200	0.119	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					
Surrogate: 1-Chlorooctane	87.1 %	45.3-161							
Surrogate: 1-Chlorooctadecane	97.7 %	46.3-178							

**Sample ID: PF 46 @ 2.5' (H225305-05)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2022	ND	203	101	200	3.85	
DRO >C10-C28*	<10.0	10.0	11/10/2022	ND	198	99.1	200	0.119	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					
Surrogate: 1-Chlorooctane	85.8 %	45.3-161							
Surrogate: 1-Chlorooctadecane	96.0 %	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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/09/2022	Sampling Date:	11/09/2022
Reported:	11/10/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PF 47 @ 2.5' (H225305-06)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2022	ND	203	101	200	3.85	
DRO >C10-C28*	<10.0	10.0	11/10/2022	ND	198	99.1	200	0.119	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	91.0 %	45.3-161							
Surrogate: 1-Chlorooctadecane	101 %	46.3-178							

**Sample ID: PF 49 @ 2.5' (H225305-07)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2022	ND	203	101	200	3.85	
DRO >C10-C28*	<10.0	10.0	11/10/2022	ND	198	99.1	200	0.119	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	86.3 %	45.3-161							
Surrogate: 1-Chlorooctadecane	97.1 %	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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/09/2022  
 Reported: 11/10/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 11/09/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 52 @ 2.5' (H225305-08)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2022	ND	203	101	200	3.85	
DRO >C10-C28*	<10.0	10.0	11/10/2022	ND	198	99.1	200	0.119	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					
Surrogate: 1-Chlorooctane	86.2 %	45.3-161							
Surrogate: 1-Chlorooctadecane	96.3 %	46.3-178							

**Sample ID: PF 57 @ 2.5' (H225305-09)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2022	ND	203	101	200	3.85	
DRO >C10-C28*	<10.0	10.0	11/10/2022	ND	198	99.1	200	0.119	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					
Surrogate: 1-Chlorooctane	91.3 %	45.3-161							
Surrogate: 1-Chlorooctadecane	106 %	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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/09/2022  
 Reported: 11/10/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 11/09/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 59 @ 2.5' (H225305-10)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2022	ND	203	101	200	3.85	
DRO >C10-C28*	<10.0	10.0	11/10/2022	ND	198	99.1	200	0.119	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					
Surrogate: 1-Chlorooctane	87.8 %	45.3-161							
Surrogate: 1-Chlorooctadecane	99.4 %	46.3-178							

**Sample ID: PF 61 @ 2.5' (H225305-11)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2022	ND	203	101	200	3.85	
DRO >C10-C28*	<10.0	10.0	11/10/2022	ND	198	99.1	200	0.119	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					
Surrogate: 1-Chlorooctane	85.8 %	45.3-161							
Surrogate: 1-Chlorooctadecane	96.6 %	46.3-178							

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/09/2022  
 Reported: 11/10/2022  
 Project Name: RED HILLS WEST 21 FED COM 2H  
 Project Number: 15507  
 Project Location: MEWBOURNE - JAL, NM

Sampling Date: 11/09/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PF 64 @ 2.5' (H225305-12)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2022	ND	203	101	200	3.85	
DRO >C10-C28*	<10.0	10.0	11/10/2022	ND	198	99.1	200	0.119	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager

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

Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1. f a

Page 9 of 10

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: 2617 W Marland				Company: Mewbourne																																					
City: Hobbs State: NM Zip: 88240				Attn: Conner Walker																																					
Phone #: (575) 264-9884 Fax #:				Address: 4801 Business Pk Blvd																																					
Project #: 15507 Project Owner: Mewbourne				City: Hobbs																																					
Project Name: Red Hills West 21 Fed Com 2H				State: NM Zip: 88240																																					
Project Location: Rural Lea County, NM				Phone #:																																					
Sampler Name: Eric Mojica				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE		ICE MANTLE		OTHER :		DATE		TIME													
H225-305T				C		1						✓										✓				11-9-22															
1 PF 97°2'				C		1						✓										✓																			
2 PF 104°5'				C		1						✓										✓																			
3 PF 105°2'				C		1						✓										✓																			
4 PNW 7-A				C		1						✓										✓																			
5 PF 46°2 1/2'				C		1						✓										✓																			
6 PF 47°2 1/2'				C		1						✓										✓																			
7 PF 49°2 1/2'				C		1						✓										✓																			
8 PF 52°2 1/2'				C		1						✓										✓																			
9 PF 57°2 1/2'				C		1						✓										✓																			
10 PF 59°2 1/2'				C		1						✓										✓																			
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																									
Relinquished By: Eric Mojica				Date: 11-9-22		Time: 1532		Received By: Tamara [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:				REMARKS:													
Relinquished By:				Date:		Time:		Received By:																																	
Delivered By: (Circle One)				#13		Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.																											
Sampler - UPS - Bus - Other:				3.6: / 3.0:		Cool Intact				(Initials)																															
						<input type="checkbox"/> Yes <input type="checkbox"/> No				TO																															



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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2. f 2

[illegible]



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

November 11, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 11/10/22 15:30.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/10/2022	Sampling Date:	11/10/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	RED HILLS WEST 21 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15507	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL, NM		

**Sample ID: PNW 3-A (H225343-01)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2022	ND	208	104	200	1.94	
<b>DRO &gt;C10-C28*</b>	<b>44.7</b>	10.0	11/11/2022	ND	202	101	200	0.260	
EXT DRO >C28-C36	<10.0	10.0	11/11/2022	ND					
Surrogate: 1-Chlorooctane	93.2 %	45.3-161							
Surrogate: 1-Chlorooctadecane	99.6 %	46.3-178							

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---

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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

**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**

QUESTIONS

Action 352130

**QUESTIONS**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 352130
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2120041782
Incident Name	NAPP2120041782 RED HILLS WEST 21 FED COM #2H @ 30-025-40391
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-025-40391] RED HILLS WEST 21 FEDERAL COM #002H

**Location of Release Source***Please answer all the questions in this group.*

Site Name	RED HILLS WEST 21 FED COM #2H
Date Release Discovered	07/12/2021
Surface Owner	State

**Incident Details***Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release***Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pipeline (Any)   Produced Water   Released: 140 BBL   Recovered: 70 BBL   Lost: 70 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.



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**District III**  
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**District IV**  
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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

QUESTIONS, Page 2  
  
Action 352130

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	352130
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 06/07/2024
--	---

**District I**

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**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**

QUESTIONS, Page 3

Action 352130

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	352130
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	19300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	7570
GRO+DRO (EPA SW-846 Method 8015M)	6690
BTEX (EPA SW-846 Method 8021B or 8260B)	3.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	05/09/2022
On what date will (or did) the final sampling or liner inspection occur	11/10/2022
On what date will (or was) the remediation complete(d)	11/10/2022
What is the estimated surface area (in square feet) that will be reclaimed	81315
What is the estimated volume (in cubic yards) that will be reclaimed	10380
What is the estimated surface area (in square feet) that will be remediated	81315
What is the estimated volume (in cubic yards) that will be remediated	10380

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 352130

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	352130
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360 Red Bluff
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 06/07/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 352130

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	352130
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS****Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	the remaining area to be deferred sits within production equipment and piping that would all need to be deconstructed to excavate the area.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	600
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	90
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (F#) on which this deferral should be granted	RED HILLS WEST 21 FED COM #2H BATTERY [APP2125643650]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 06/07/2024

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QUESTIONS, Page 6  
  
Action 352130

QUESTIONS (continued)

Operator:  MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	352130
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS  
  
Action 352130

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 352130
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Deferral Approved. Pursuant to the NMOCD-approved Deferral Request, remediation of impacted soil affected above the NMOCD Closure Criteria remaining in-situ in the Deferral Area will be completed upon decommissioning and abandonment of the SWD facility, in accordance with Sections 19.15.29.12 and 19.15.29.13 NMAC.	6/17/2024