

Remediation Summary & Deferral Request

Mewbourne Oil Company

Hoss 11 SWD #1

Eddy County, New Mexico

Unit Letter "A", Section 11, Township 25 South, Range 28 East

Latitude 32.151553 North, Longitude 104.050179 West

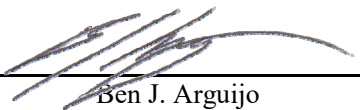

NMOCD Reference No. nAPP2334251764

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 Hoss 11 SWD #1. Details of the release are summarized below:

Location of Release Source

Latitude: 32.151553 Longitude: -104.050179

Provided GPS are in WGS84 format.

Site Name:	Hoss 11 SWD #1	Site Type:	Tank Battery
Date Release Discovered:	12/3/2023	API # (if applicable):	30-015-44666

Unit Letter	Section	Township	Range	County
"A"	11	25S	28E	Eddy

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

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) 458	Volume Recovered (bbls) 350
	Is the concentration of dissolved chloride 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 checked="" type="checkbox"/> Other (describe) Crude Oil	Volume/Weight Released 120	Volume/Weight Recovered 68
Cause of Release: A threaded steel nipple failed and parted.		

Initial Response

<input checked="" type="checkbox"/> The source of the release has been stopped.
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 51 and 75 (ft.)
What method was used to determine the depth to groundwater?	Estimate or Other
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	½ to 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	½ to 1 (mi.)
An occupied permanent residence, school, hospital, institution or church?	> 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	1 to 5 (mi.)
Any other fresh water well or spring?	1 to 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	> 5 (mi.)
A wetland?	½ to 1 (mi.)
A subsurface mine?	> 5 (mi.)
A (non-karst) unstable area?	½ to 1 (mi.)
Categorize the risk of this well/site being in a karst geology.	High
A 100-year floodplain?	½ to 1 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on August 17, 2020, an investigative soil boring/temporary monitor well was drilled at the Hoss 11 SWD #1 tank battery during the course of remediation activities for NMOCD Incident #nRM2018244476 in an effort to further investigate site characteristics and determine if shallow groundwater is present in the area. The investigative soil bore was advanced to a total depth of approximately 53 feet bgs and left open for 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil bore or prior to plugging and abandonment. The location of the soil bore is depicted in Figures 2A and 2B. A drilling report is provided in Appendix A.

Additional NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; aerial imagery; and a karst survey conducted by a third-party contractor on August 15, 2020. The results are depicted in Figures 1, 2A, 2B, and 4. A copy of the karst survey is provided in Appendix E.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on background sampling conducted during the course of remediation activities for NMOCD Incident #nRM2018244476 (release date 6/29/2020), Mewbourne Oil Company requested NMOCD approval for a modified chloride closure criterion for the Hoss 11 SWD #1 location. The NMOCD Closure Criteria and NMOCD Reclamation Standards previously approved for the site are listed in the table on the following page. For additional information, please reference the email provided in Appendix F dated June 3, 2021, and the *Remediation Summary & Deferral Request* for Incident #nRM2018244476, which is available in the NMOCD Imaging System.

Closure Criteria for Soils Impacted by a Release

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria**†	Reclamation Standard**‡
>53 (ft.)	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	1,060	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	-	-
	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 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
On what estimated date did, or will, the remediation commence?	12/13/2023
On what date will (or was) the remediation complete(d)?	1/18/2024
What was the total surface area (sq. ft.) remediated?	35,486
What was the total volume (cy) remediated?	2,640
This remediation utilized the following processes to remediate/reduce contaminants:	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	R360 Red Bluff Facility
NMOCD Disposal Facility ID?	Texas
Summarize any additional remediation activities not included by answers above.	See below

On December 13, 2023, remediation activities commenced at the Hoss 11 SWD #1 release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards or to the extent practicable, based on the presence of the active SWD and associated containment areas, storage tanks, piping,

appurtenances, electrical facilities, etc. 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. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	5,280	DEF-1 @ 1'	1/10/2024	1	In-Situ/Deferral
TPH	<30.0	All submitted soil samples	12/15/23 - 1/12/24	Various (0 - 6)	In-Situ
GRO + DRO	<20.0	All submitted soil samples	12/15/23 - 1/12/24	Various (0 - 6)	In-Situ
Benzene	<0.050	All submitted soil samples	12/15/23 - 1/12/24	Various (0 - 6)	In-Situ
BTEX	<0.300	All submitted soil samples	12/15/23 - 1/12/24	Various (0 - 6)	In-Situ

Please reference the attached Table 1.

On December 15, 2023, Etech collected 55 confirmation soil samples (NW-1, EW-1, SW-1, SW-2, WW-1, FL1 @ 4' through FL-38 @ 8", and FL-43 @ 6" through FL-54 @ 6") from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil samples SW-1 and WW-1, which exceeded the NMOCD Reclamation Standard for chloride. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples SW-1 and WW-1.

On December 18, 2023, Etech collected 39 confirmation soil samples (FL 39 @ 1 1/2 Ft through FL 42 @ 1 Ft, and FL 55 @ 6 In. through FL 89 @ 1') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil sample FL 65 @ 6", which exceeded the NMOCD Reclamation Standard for chloride. Based on these laboratory analytical results, the excavation was subsequently further advanced in the area characterized by soil sample FL 65 @ 6".

On December 19, 2023, Etech collected 20 confirmation soil samples (NW2, WW2, WW3, FL 90 @ 6" through FL 97 @ 6", and FL 142 @ 2' through FL 150 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil sample FL 146 @ 3', which exceeded the NMOCD Reclamation Standard for chloride. Based on these laboratory analytical results, the excavation was subsequently further advanced in the area characterized by soil sample FL 146 @ 3'.

On December 20, 2023, Etech collected 21 confirmation soil samples (NW3, EW2 through EW5, FL 98 @ 3' through FL 106 @ 1', and FL 135 @ 2' through FL 141 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil samples FL 105 @ 1' and FL 106 @ 1', which exceeded the NMOCD Reclamation Standard for chloride. Based on these laboratory analytical results, the excavation was subsequently further advanced in the area characterized by soil samples FL 105 @ 1' and FL 106 @ 1'.

On December 21, 2023, Etech collected 13 confirmation soil samples (NW4, NW5, SW 1B, WW 1B, WW4, WW5, FL 107 @ 2 through FL 112 @ 1, and FL 134 @ 3) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On December 29, 2023, Etech collected four (4) confirmation soil samples (FL 105 @ 2', FL 106 @ 2', FL 113 @ 4', and FL 115 @ 4') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On January 4, 2024, Etech collected six (6) confirmation soil samples (FL-114 @ 4', FL-119 @ 5' through FL-122 @ 2', and FL-146 @ 5') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On January 5, 2024, Etech collected five (5) confirmation soil samples (EW-6, SW-3, FL 65 @ 1', FL 123 @ 3', and FL 124 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On January 9, 2024, Etech collected 13 confirmation soil samples (NW-6, NW-7, NW-8, EW-7, EW-8, SW-4, WW-6 through WW-10, FL-125 @ 6", and FL-126 @ 6") from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On January 10, 2024, Etech advanced three (3) hand-augered soil bores (DEF-1, DEF-2, and DEF-3) within the release margins in an effort to further characterize the affected area adjacent to and/or beneath on-site electrical facilities, piping, appurtenances, etc., requiring deferral of remediation (henceforth, "Deferral Area"). During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses. The soil bores were advanced in one (1) foot increments until field observations and field test data suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Based on this data, Etech submitted 12 deferral characterization soil samples (DEF-1 @ 1', DEF-1 @ 2', DEF-1 @ 3', DEF-1 @ 4', DEF-2 @ 1', DEF-2 @ 2', DEF-2 @ 3', DEF-2 @ 4', DEF-3 @ 1', DEF-3 @ 2', DEF-3 @ 3', and DEF-3 @ 4') to the laboratory for analysis of BTEX, TPH, and chloride.

Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined and did not extend beyond four (4) feet bgs in the areas characterized by sample points DEF-1, DEF-2, and DEF-3. The horizontal extent of impacted soil in the Deferral Area was adequately defined in all cardinal directions by previously submitted excavation wall samples EW-6 and WW-10 and floor samples FL 113 @ 4', FL-114 @ 4', FL 115 @ 4', FL-119 @ 5', and FL-120 @ 5'.

On January 10, 2024, Etech also collected two (2) confirmation soil samples (EW-9 and SW-5) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On January 12, 2024, Etech collected seven (7) confirmation soil samples (FL-127 @ 6" through FL-133 @ 6") from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

The final dimensions of the excavated area were approximately 232 to 340 feet in length, four (4) to 128 feet in width, and six (6) inches to six (6) feet in depth. During the course of remediation activities, Etech transported approximately 2,640 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 2,400 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extents of the excavated areas and Deferral Area are depicted in Figure 3, "Sample Location Map". Soil chemistry data is summarized in Table 1. General photographs of the release site are provided in Appendix B. Field data is provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix F.

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What was the total surface area (sq. ft.) reclaimed?	35,486
What was the total volume (cy) reclaimed?	1,759
What is the total surface area (sq. ft.) that will <i>eventually</i> be reclaimed?	2,130
What is the total volume (cy) that will <i>eventually</i> be reclaimed?	316

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

6.0 DEFERRAL REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What is the remaining surface area (sq. ft.) that will still need to be remediated if a deferral is granted?	2,130
What is the remaining volume (cy) that will still need to be remediated if a deferral is granted?	316
Enter the facility ID (f#) on which the deferral should be granted:	fAPP2125745599
Enter the API (30-) on which the deferral should be granted:	30-015-44666
Contamination does not cause an imminent risk to human health, the environment or groundwater:	TRUE

Remediation activities were conducted in accordance with applicable NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated to the extent practicable and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate in-situ concentrations of BTEX and TPH are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Remediation of chloride-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 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 referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

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

8.0 DISTRIBUTION

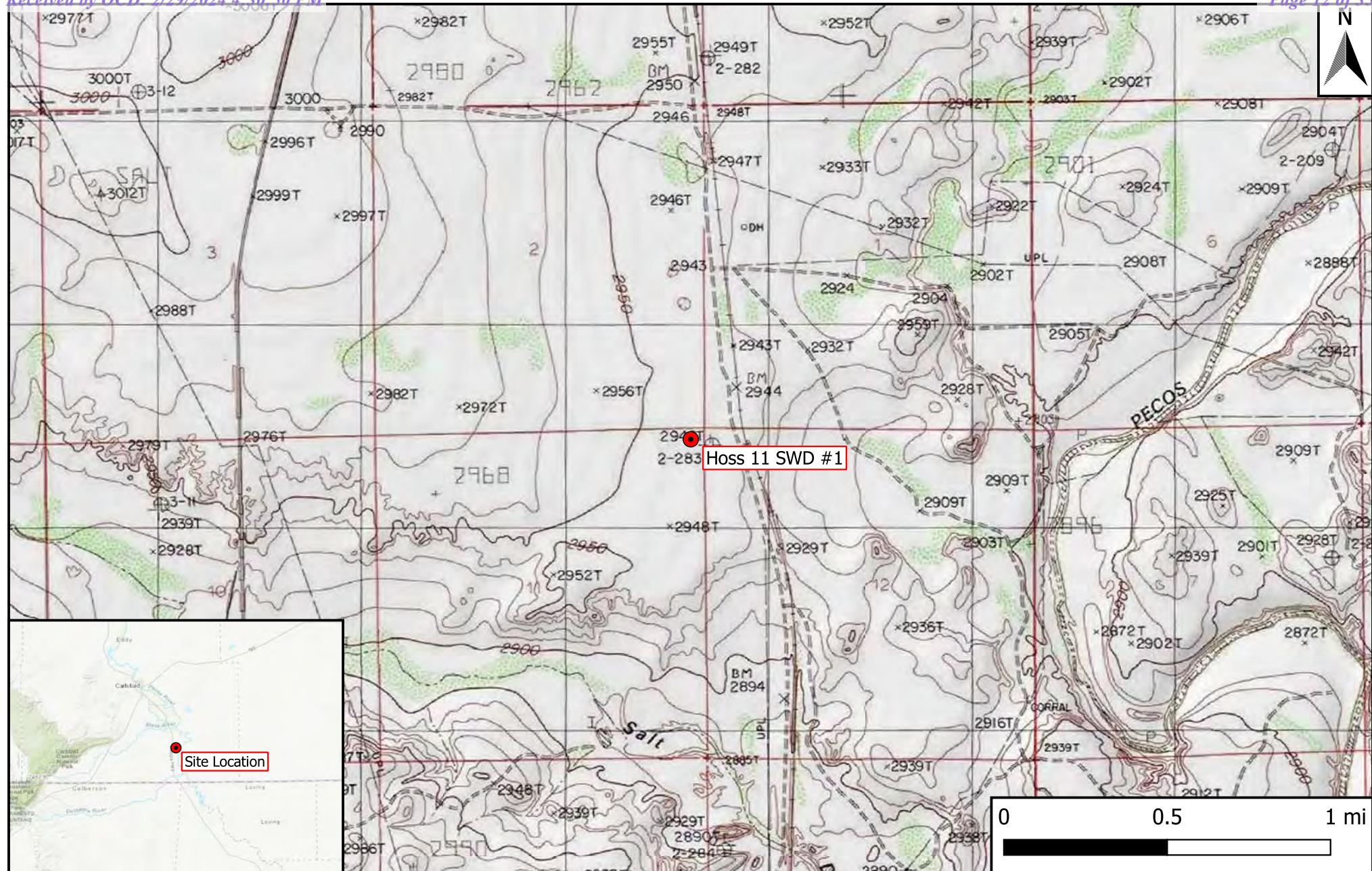
Mewbourne Oil Company
4801 Business Park Blvd.
Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1

Site Location Map
 Mewbourne Oil Company
 Hoss 11 SWD #1
 GPS: 32.151553, -104.050179
 Eddy County, New Mexico

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: rlc

Date: 2/9/24

Figures 2A & 2B

Site Characterization Maps

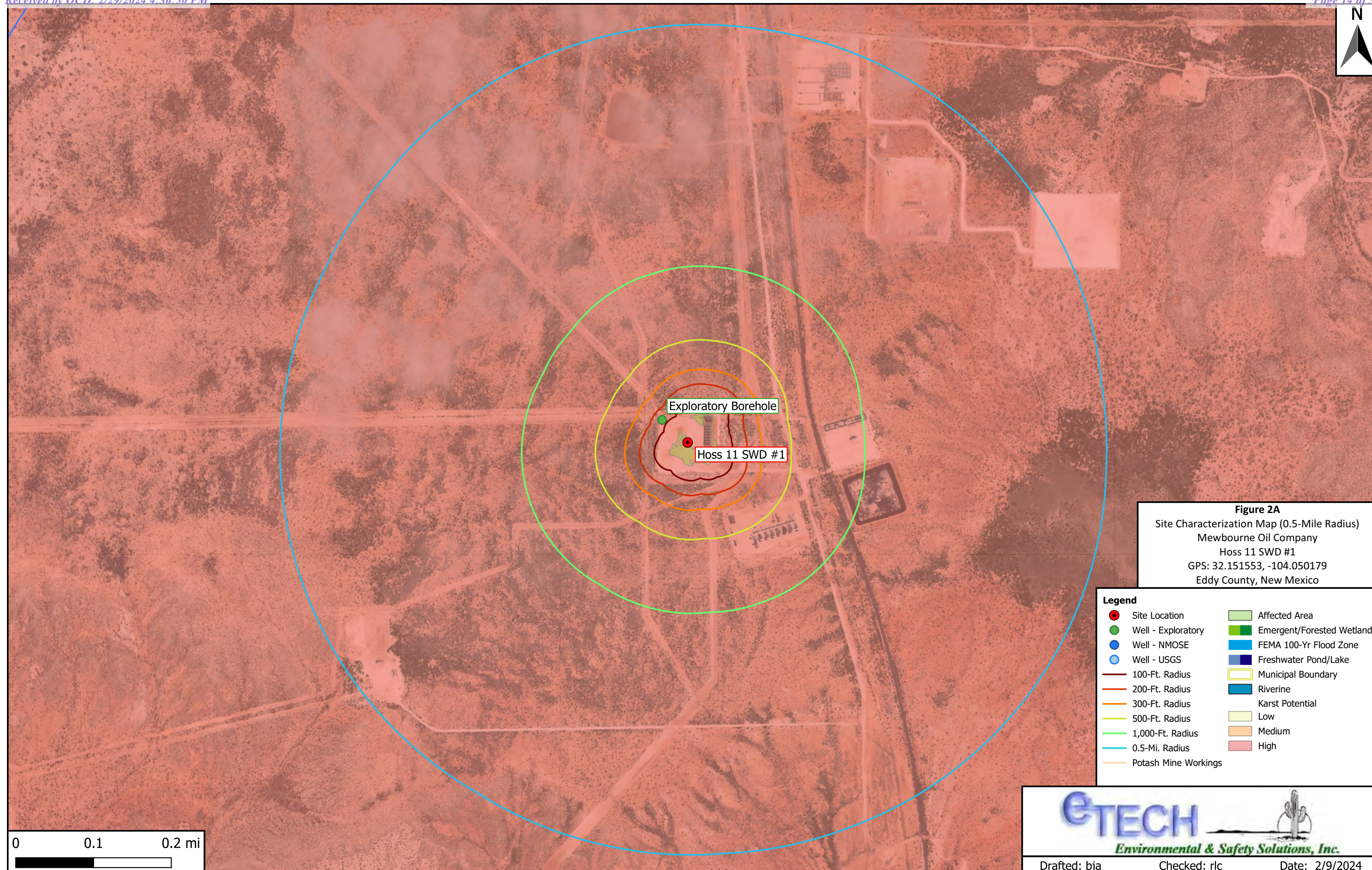
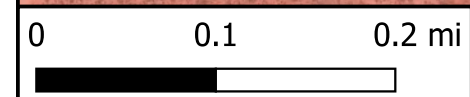


Figure 2A
Site Characterization Map (0.5-Mile Radius)
Mewbourne Oil Company
Hoss 11 SWD #1
GPS: 32.151553, -104.050179
Eddy County, New Mexico

- Legend**
- | | |
|----------------------|----------------------------|
| Site Location | Affected Area |
| Well - Exploratory | Emergent/Forested Wetlands |
| Well - NMOSE | FEMA 100-Yr Flood Zone |
| Well - USGS | Freshwater Pond/Lake |
| 100-Ft. Radius | Municipal Boundary |
| 200-Ft. Radius | Riverine |
| 300-Ft. Radius | Karst Potential |
| 500-Ft. Radius | Low |
| 1,000-Ft. Radius | Medium |
| 0.5-Mi. Radius | High |
| Potash Mine Workings | |



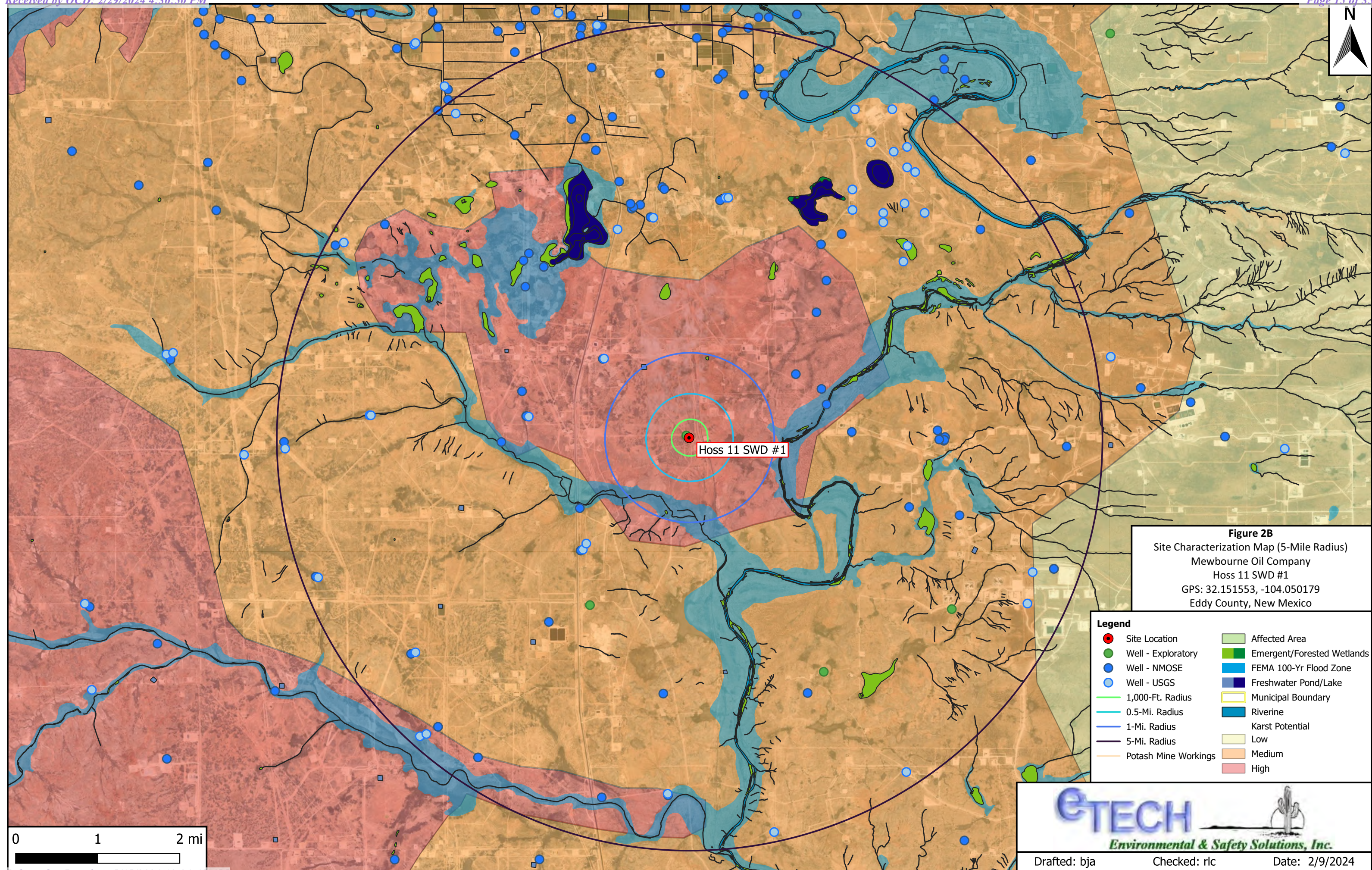


Figure 3

Sample Location Map

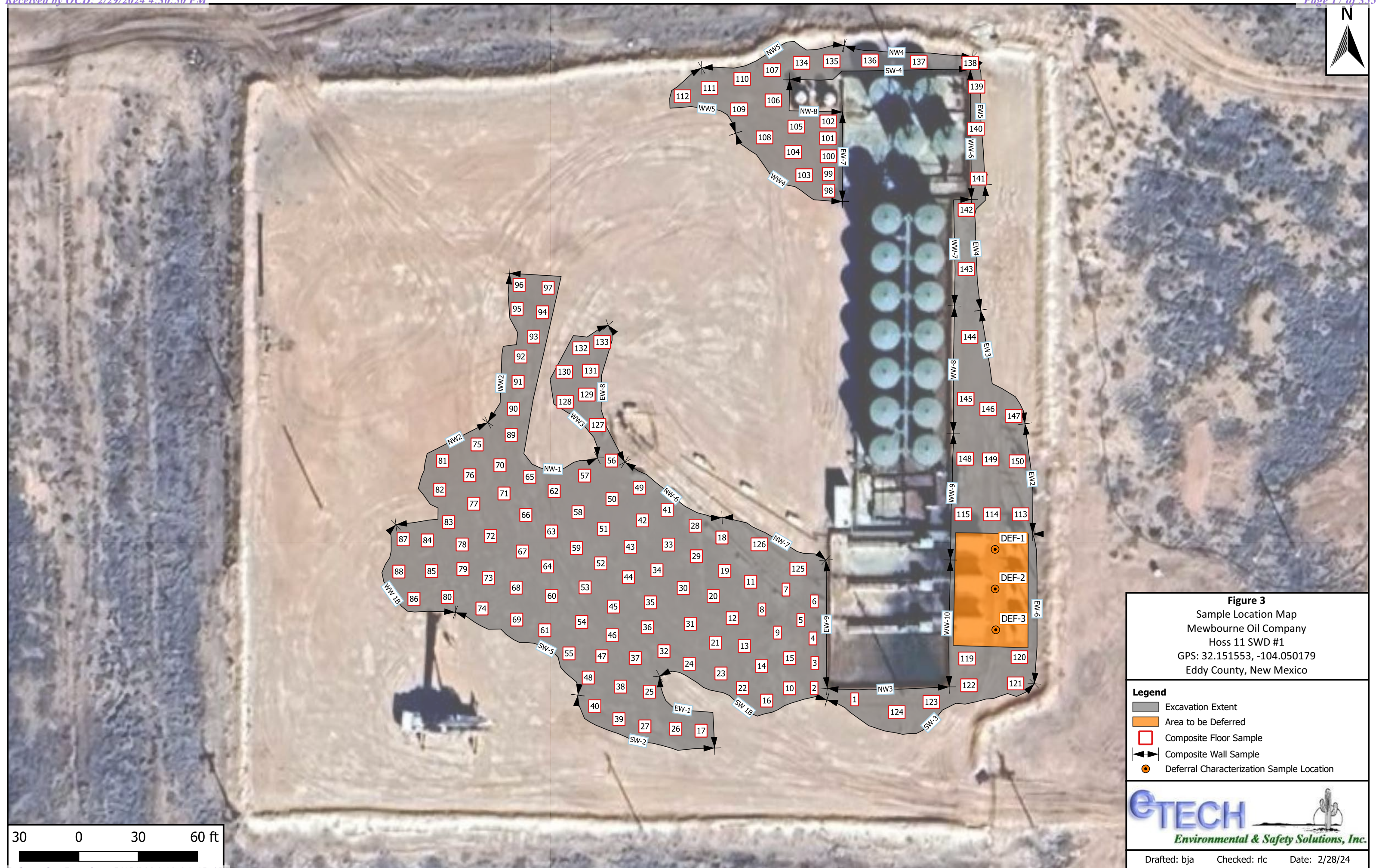


Figure 3
Sample Location Map
Mewbourne Oil Company
Hoss 11 SWD #1
GPS: 32.151553, -104.050179
Eddy County, New Mexico

- Legend**
- Excavation Extent
 - Area to be Deferred
 - Composite Floor Sample
 - Composite Wall Sample
 - Deferral Characterization Sample Location



Drafted: bja Checked: rlc Date: 2/28/24

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Hoss 11 SWD #1 NMOCD Ref. #: nAPP2334251764											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	1,060
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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chlorid (mg/kg)
Deferral Characterization Soil Samples											
DEF-1 @ 1'	1/10/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,280
DEF-1 @ 2'	1/10/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,720
DEF-1 @ 3'	1/10/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,480
DEF-1 @ 4'	1/10/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
DEF-2 @ 1'	1/10/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,520
DEF-2 @ 2'	1/10/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,520
DEF-2 @ 3'	1/10/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,600
DEF-2 @ 4'	1/10/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
DEF-3 @ 1'	1/10/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,320
DEF-3 @ 2'	1/10/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,080
DEF-3 @ 3'	1/10/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,880
DEF-3 @ 4'	1/10/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
Excavation Composite Confirmation Soil Samples											
NW-1	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
NW2	12/19/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW3	12/20/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
NW4	12/21/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW5	12/21/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW-6	1/9/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
NW-7	1/9/2024	0-0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
NW-8	1/9/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
EW-1	12/15/2023	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
EW2	12/20/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
EW3	12/20/2023	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
EW4	12/20/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
EW5	12/20/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
EW-6	1/5/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
EW-7	1/9/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW-8	1/9/2024	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW-9	1/10/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW-1	12/15/2023	0-4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
SW 1B	12/21/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
SW-2	12/15/2023	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
SW-3	1/5/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
SW-4	1/9/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
SW-5	1/10/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WW-1	12/15/2023	0-1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	784
WW 1B	12/21/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
WW2	12/19/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW3	12/19/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW4	12/21/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
WW5	12/21/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
WW-6	1/9/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WW-7	1/9/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red outlined cell: Highest observable concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Hoss 11 SWD #1 NMOCD Ref. #: nAPP2334251764											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	1,060
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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
WW-8	1/9/2024	0-6	In-Situ	<0.050	<0.300	<10.0	13.2	13.2	<10.0	13.2	176
WW-9	1/9/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW-10	1/9/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL1 @ 4'	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL2 @ 4'	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL3 @ 4'	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL4 @ 4'	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL5 @ 4'	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL6 @ 2'	12/15/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL7 @ 1.5'	12/15/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL8 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL9 @ 1.5'	12/15/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL10 @ 1.5'	12/15/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FL11 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL12 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL13 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL14 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL15 @ 1.5'	12/15/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL16 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL17 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL18 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL19 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL20 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL21 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL22 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL23 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL24 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL25 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL26 @ 1.5'	12/15/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL27 @ 1.5'	12/15/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL28 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL29 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL30 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL31 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL32 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL33 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL-34 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL-35 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL-36 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL-37 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL-38 @ 8"	12/15/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 39 @ 1 1/2 Ft	12/18/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 40 @ 1 1/2 Ft	12/18/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 41 @ 1 Ft	12/18/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 42 @ 1 Ft	12/18/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400

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

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

Red outlined cell: Highest observable concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Hoss 11 SWD #1 NMOCD Ref. #: nAPP2334251764											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	1,060
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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL-43 @ 6"	12/15/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL-44 @ 6"	12/15/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL-45 @ 6"	12/15/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FL-46 @ 6"	12/15/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL-47 @ 6"	12/15/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FL-48 @ 6"	12/15/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL-49 @ 6"	12/15/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL-50 @ 6"	12/15/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL-51 @ 6"	12/15/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL-52 @ 6"	12/15/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL-53 @ 6"	12/15/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL-54 @ 6"	12/15/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 55 @ 6 In.	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 56 @ 6 In.	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL 57 @ 1 Ft	12/18/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 58 @ 1 Ft	12/18/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 59 @ 1 Ft	12/18/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 60 @ 1 Ft	12/18/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 61 @ 1 Ft	12/18/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 62 @ 1 Ft	12/18/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 63 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL 64 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FL 65 @ 6"	12/18/2023	0.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	688
FL 65 @ 1'	1/5/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 66 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 67 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 68 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 69 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 70 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 71 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 72 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 73 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 74 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 75 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 76 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 77 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 78 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 79 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 80 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 81 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 82 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 83 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 84 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 85 @ 1'	12/18/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 86 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red outlined cell: Highest observable concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Hoss 11 SWD #1 NMOCD Ref. #: nAPP2334251764											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	1,060
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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 87 @ 6"	12/18/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 88 @ 1'	12/18/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 89 @ 1'	12/18/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 90 @ 6"	12/19/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 91 @ 6"	12/19/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 92 @ 6"	12/19/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 93 @ 6"	12/19/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 94 @ 6"	12/19/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 95 @ 6"	12/19/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 96 @ 6"	12/19/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 97 @ 6"	12/19/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 98 @ 3'	12/20/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 99 @ 2'	12/20/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL 100 @ 2'	12/20/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 101 @ 2'	12/20/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 102 @ 2'	12/20/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 103 @ 2'	12/20/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 104 @ 2'	12/20/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 105 @ 1'	12/20/2023	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	816
FL 105 @ 2'	12/29/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 106 @ 1'	12/20/2023	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
FL 106 @ 2'	12/29/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 107 @ 2	12/21/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 108 @ 2	12/21/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 109 @ 2	12/21/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 110 @ 1	12/21/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 111 @ 1	12/21/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 112 @ 1	12/21/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 113 @ 4'	12/29/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL-114 @ 4'	1/4/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 115 @ 4'	12/29/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL-119 @ 5'	1/4/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL-120 @ 5'	1/4/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL-121 @ 2'	1/4/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL-122 @ 2'	1/4/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 123 @ 3'	1/5/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 124 @ 3'	1/5/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL-125 @ 6"	1/9/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL-126 @ 6"	1/9/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL-127 @ 6"	1/12/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL-128 @ 6"	1/12/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL-129 @ 6"	1/12/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL-130 @ 6"	1/12/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL-131 @ 6"	1/12/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL-132 @ 6"	1/12/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red outlined cell: Highest observable concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Hoss 11 SWD #1 NMOCD Ref. #: nAPP2334251764											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	1,060
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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL-133 @ 6"	1/12/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 134 @ 3	12/21/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 135 @ 2'	12/20/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 136 @ 3'	12/20/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 137 @ 3'	12/20/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 138 @ 1'	12/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 139 @ 3'	12/20/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 140 @ 3'	12/20/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 141 @ 4'	12/20/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 142 @ 2'	12/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 143 @ 3'	12/19/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 144 @ 5'	12/19/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL 145 @ 6'	12/19/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 146 @ 3'	12/19/2023	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	624
FL-146 @ 5'	1/4/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 147 @ 3'	12/19/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 148 @ 3'	12/19/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 149 @ 4'	12/19/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 150 @ 3'	12/19/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480

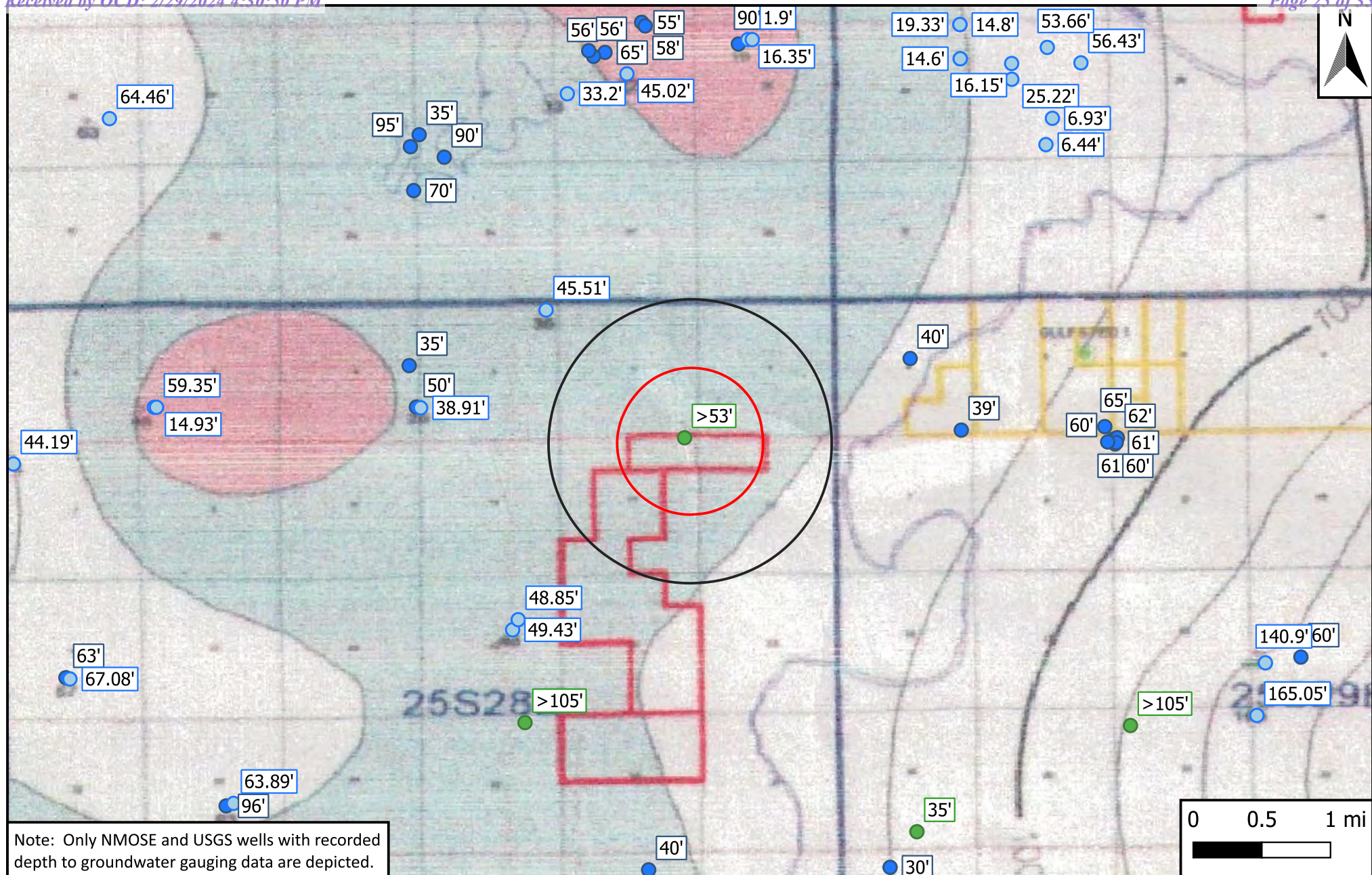
Dash (-): Sample not analyzed for that constituent.

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

Red outlined cell: Highest observable concentration.

Appendix A

Depth to Groundwater Information



Legend

- Site Location
- Well - Exploratory
- Well - NMOSE
- Well - USGS
- 0.5-Mile Radius
- 1-Mile Radius

Figure 4

Inferred Depth to Groundwater Map
 Mewbourne Oil Company
 Hoss 11 SWD #1
 GPS: 32.151553, -104.050179
 Eddy County, New Mexico



Drafted: bja

Checked: rlc

Date: 2/8/24

**DRILL LLC**

P.O. Box 7269
Abilene, Texas 79608
Tel 325-690-0053
Fax 325-698-0055

Drill Report

M1 0957Date: Aug 22 Computer#: _____Customer: Newbourne 2 locations Rawhide Rd.Lease/well: Hess II Sand #1

Drilling Rig: _____

Rig measurement: _____

One Call#: _____

Prep Time 0530 Standby _____
Depart Shop _____ Arrived at Shop _____
Arrive at Loc. _____ Total Hours _____
Finished Job _____

Employees: McCracken, Shawn, Dylan

	Hole (Diameter x depth)	Pipe/cellar size	Total Drill Time
Cellar			
Conductor			
Mouse			
Rat			

Ground Level	Drilling conditions (describe material; rock, sand, gravel, clay, color of material, water zones, etc)
-----	53' Inside containment "No water"
-----	17' outside During drill
-----	Rawhide

-----	105' Pad on Rawhide "No water"
-----	During drill

Total Depth	

Cement	Total yards poured: _____		# Cement Trucks: _____ (volumetric/roller)	
	(in-house)	Squeezed by: _____ (list third party)		
Cement Employees:				
Water trucks (in house) #:		3rd party water/vac #:		
Drilling mud Bbls:				
Bullet teeth Qty:		Fencing provided?	yes___ no___ Type of fencing _____	

Job Notes



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 6	Q 4	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_04715 POD1		CUB	ED	3	4	4	34	24S	28E	587786	3559440	2541	40		
C_01880		C	ED	3	3	2	06	25S	29E	592161	3558605*	2768	85	40	45
C_04680 POD1		C	ED	3	1	3	03	25S	28E	586440	3558089	3163	105	52	53
C_04493 POD1		CUB	ED	4	4	4	06	25S	29E	592760	3557765	3193	57	39	18

Average Depth to Water: **43 feet**

Minimum Depth: **39 feet**

Maximum Depth: **52 feet**

Record Count:4

UTMNAD83 Radius Search (in meters):

Easting (X): 589569.57

Northing (Y): 3557629.5

Radius: 3218.7

*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.


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WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04715 POD1	3	4	4	34	24S	28E	587786	3559440 

Driller License: 1229 **Driller Company:** CARTER'S WELL DRILLING
Driller Name: RICHARD CARTER

Drill Start Date: 03/02/2023	Drill Finish Date: 03/16/2023	Plug Date:
Log File Date: 04/24/2023	PCW Rcv Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 6.50	Depth Well: 40 feet	Depth Water:

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2/26/24 3:00 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	01880	3	3	2	06	25S	29E	592161	3558605*🌐
Driller License: 46		Driller Company:				ABBOTT BROTHERS COMPANY			
Driller Name:		MURRELL ABBOTT							
Drill Start Date: 10/29/1979		Drill Finish Date:				10/30/1979		Plug Date:	
Log File Date: 11/05/1979		PCW Rcv Date:						Source: Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:	
Casing Size: 7.00		Depth Well:				85 feet		Depth Water: 40 feet	
Water Bearing Stratifications:				Top	Bottom	Description			
				40	85	Sandstone/Gravel/Conglomerate			
Casing Perforations:				Top	Bottom				
				40	60				

*UTM location was derived from PLSS - see Help

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
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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	Tws	Rng	X	Y	
210D1	C 04680 POD1	3	1	3	03	25S	28E	586440	3558089	
Driller License: 1058		Driller Company:		KEY'S DRILLING & PUMP SERVICE						
Driller Name: GARY KEY										
Drill Start Date: 09/28/2023		Drill Finish Date:		09/29/2023			Plug Date:			
Log File Date: 10/25/2023		PCW Rcv Date:					Source:		Shallow	
Pump Type:		Pipe Discharge Size:					Estimated Yield: 8 GPM			
Casing Size: 5.00		Depth Well:		105 feet			Depth Water:		52 feet	
Water Bearing Stratifications:		Top	Bottom	Description						
		64	67	Sandstone/Gravel/Conglomerate						
		90	98	Sandstone/Gravel/Conglomerate						
Casing Perforations:		Top	Bottom							
		65	105							

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2/26/24 3:01 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
NA	C 04493 POD1	4	4	4	06	25S	29E	592760	3557765				
Driller License: 1249		Driller Company:		ATKINS ENGINEERING ASSOC. INC.									
Driller Name: JACKIE D ATKINS													
Drill Start Date: 11/18/2020		Drill Finish Date:		11/18/2020		Plug Date:		11/23/2020					
Log File Date: 12/17/2020		PCW Rcv Date:				Source:		Shallow					
Pump Type:		Pipe Discharge Size:				Estimated Yield:		0 GPM					
Casing Size:		Depth Well:		57 feet		Depth Water:		39 feet					
Water Bearing Stratifications:				Top	Bottom	Description							
				29	57	Sandstone/Gravel/Conglomerate							

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.

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POINT OF DIVERSION SUMMARY

IMPORTANT [Inventory Page](#) ⓘ



☐ 1 year

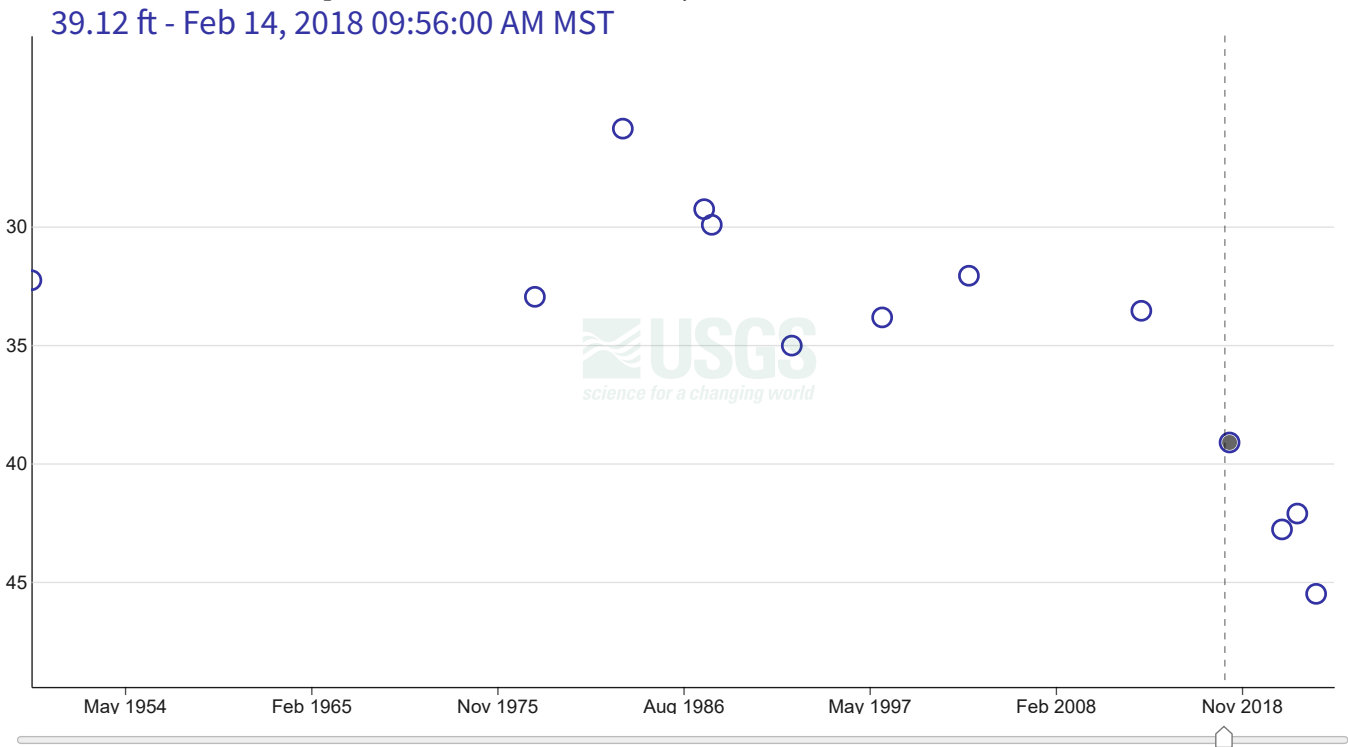
☐ 10 years

☒ Period of record

25S.28E.03.22231 -
320956104040101

December 6, 1948 - February 26, 2024

Depth to water level, ft below land surface



IMPORTANT

Data may be [provisional](#)

☐ Field visit

[Hide legend](#) ^

	Value	Status
<input checked="" type="radio"/> Selected	39.12 ft	Approved
Feb 14, 2018 09:56:00 AM MST		

[Hide graph details](#) ^

Statistics are not currently supported for the data type:

[Hide statistics](#) ^

Change time span

Download data

View data records

Start typing a time code to filter the Time column:

Depth to water level, ft below land surface -- field visit data

Time ↓	Result	Accuracy	Approval	Qualifiers
2023-02-14T10:44:00.000-07:00	45.51	0.01	Approved	Static
2022-01-13T11:36:00.000-07:00	42.12	0.01	Approved	Static
2021-02-24T12:00:00.000-07:00	42.79	0.01	Approved	Static
2018-02-14T09:56:00.000-07:00	39.12	0.01	Approved	Static
2013-01-10T14:20:00.000-07:00	33.56	0.01	Approved	Static
2003-01-27T00:00:00.000-07:00	32.08	0.01	Approved	Static
1998-01-23T00:00:00.000-07:00	33.84	0.01	Approved	Static
1992-11-04T00:00:00.000-07:00	35.03	0.01	Approved	Static
1988-03-22T00:00:00.000-07:00	29.93	0.01	Approved	Static
1987-10-14T00:00:00.000-06:00	29.27	0.01	Approved	Static
1983-02-01T00:00:00.000-07:00	25.87	0.01	Approved	Static
1978-01-03T00:00:00.000-07:00	32.97	0.01	Approved	Static
1948-12-06T00:00:00.000-07:00	32.27	0.01	Approved	Static

Hide view data records ^

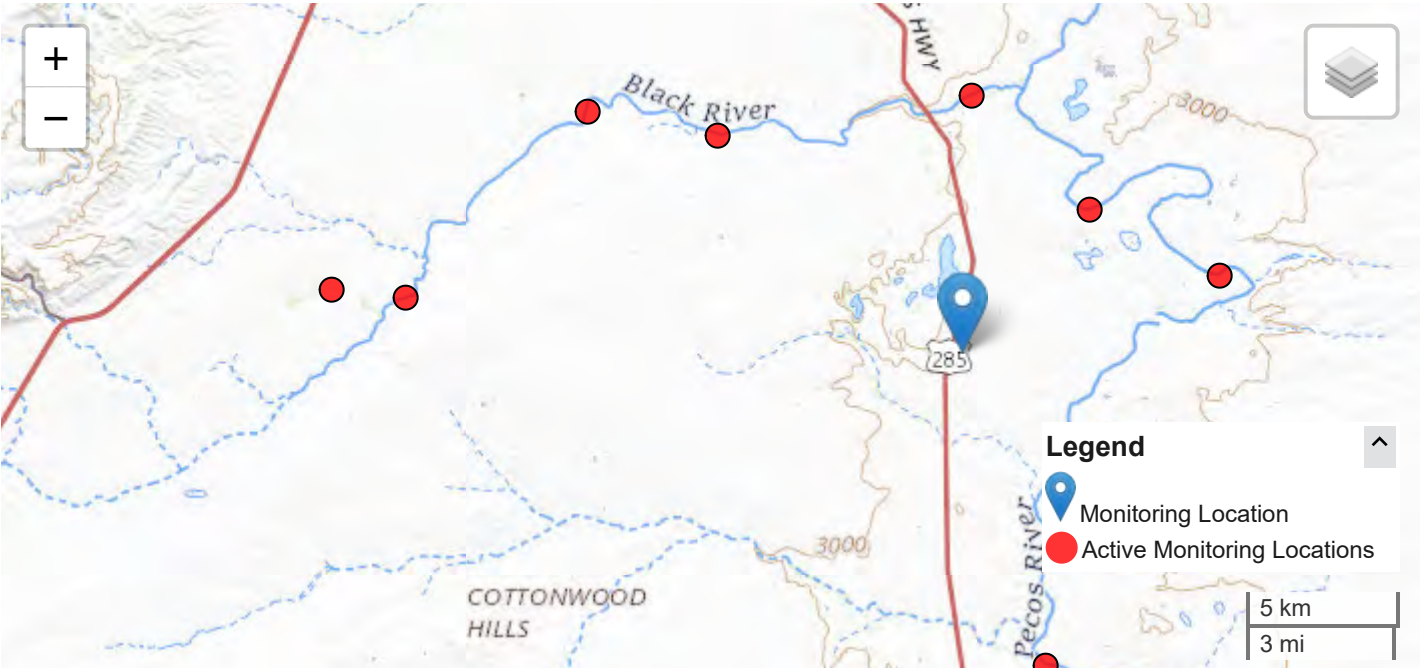
Select data to graph

<input checked="" type="radio"/> Depth to water level, ft below land surface	1948-12-06 to 2023-02-14
<input type="radio"/> Groundwater level above NAVD 1988, ft	1948-12-06 to 2023-02-14
<input type="radio"/> Groundwater level above NGVD 1929, feet	1948-12-06 to 2023-02-14
Monitoring camera	—

There are no cameras currently available at this monitoring location.

Groundwater data BETA	—
------------------------------	---

i Why don't I see a groundwater graph?
No groundwater level statistical daily data has been reported for this location.



Source: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset,...

Interested in understanding how to access the upstream/downstream data? [Learn about the Network-Linked Data Index \(NLDI\)](#).

Summary of available field and laboratory sample data	—
---	---

No sample data is available.

Summary of all available data

—

USGS Parameter Group	Date Range	Start Date	End Date
	Questions or Comments		
Physical	Groundwater Levels	1948-12-06	2023-02-14
n/a	USGS Active Groundwater Level Network Site	1948-01-01	2021-01-01

[Water Data for the Nation inventory](#)

Location metadata

—

Monitoring location 320956104040101 is associated with a Well in Eddy County, New Mexico. Water data back to 1948 are available online.

Metadata Element	Location Metadata	Metadata Code
Agency ⓘ	U.S. Geological Survey	USGS
Site identification number ⓘ	320956104040101	n/a
Site name ⓘ	25S.28E.03.22231	n/a
Site type ⓘ	Well ⓘ	GW
DMS latitude	320956.2	n/a
DMS longitude	1040404.1	n/a
Decimal latitude	32.1656111	n/a
Decimal longitude	-104.0678056	n/a

Metadata Element	Location Metadata	Metadata Code
Latitude-longitude method ⓘ	Mapping grade GPS unit (handheld accuracy range 12 to 40 ft)	G
Latitude-longitude accuracy ⓘ	Accurate to + or - 3 sec (SPS GPS).	R
Latitude-longitude datum ⓘ	North American Datum of 1983	NAD83
Decimal Latitude-longitude datum	North American Datum of 1983	NAD83
District ⓘ	New Mexico	35
State ⓘ	New Mexico	35
County ⓘ	Eddy County	015
Country	US	n/a
Land net location description	NENENES03 T25S R28E	n/a
Name of location map	MALAGA	n/a
Scale of location map	24000	n/a
Altitude of Gage/land surface	2990.20	n/a
Method altitude determined	Interpolated from topographic map.	M

Released to Imaging: 5/15/2024 10:34:45 AM

Metadata Element	Location Metadata	Metadata Code
Data reliability ⓘ	Unchecked data.	U
Data-other GW files	YYNYNNNN	n/a
National aquifer	Other aquifers	N9999OTHER
Local aquifer	Rustler Formation	312RSLR
Local aquifer type ⓘ		n/a
Well depth		n/a
Hole depth ⓘ		n/a
Source of depth data		n/a
Project number	463527100	n/a

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IMPORTANT

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☐ 1 year

☐ 10 years

☒ Period of record

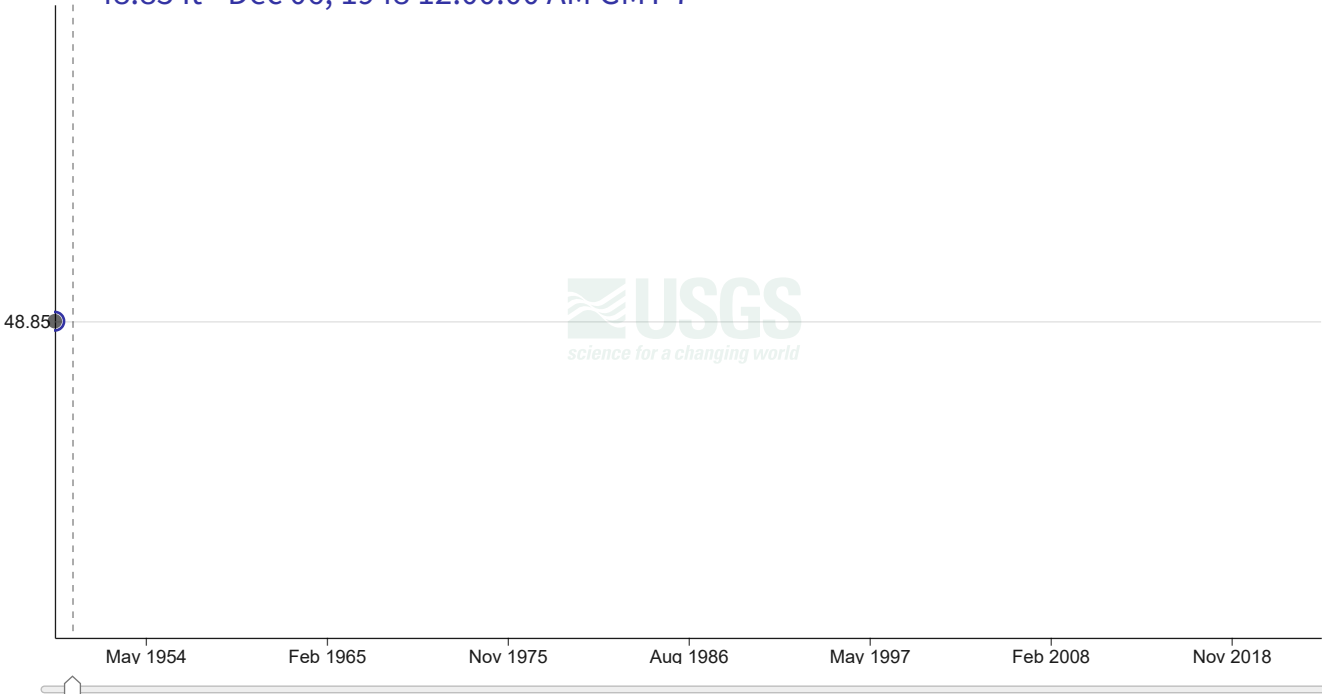
25S.28E.15.23231 -

320758104041601

December 6, 1948 - February 26, 2024

Depth to water level, ft below land surface

48.85 ft - Dec 06, 1948 12:00:00 AM GMT-7



IMPORTANT

Data may be [provisional](#)

☐ Field visit

Hide legend ^

	Value	Status
<input checked="" type="radio"/> Selected Dec 06, 1948 12:00:00 AM GMT-7	48.85 ft	Approved

Hide graph details ^

Statistics are not currently supported for the data type:

Hide statistics ^

Change time span

Download data

View data records

Start typing a time code to filter the Time column:

Depth to water level, ft below land surface -- field visit data

Time ↓	Result	Accuracy	Approval	Qualifiers
1948-12-06T00:00:00.000-07:00	48.85	0.01	Approved	Static

Hide view data records ^

Select data to graph

☒ Depth to water level, ft below land surface

1948-12-06 to 1948-12-06

☐ Groundwater level above NAVD 1988, ft

1948-12-06 to 1948-12-06

☐ Groundwater level above NGVD 1929, feet

1948-12-06 to 1948-12-06

Monitoring camera

—

There are no cameras currently available at this monitoring location.

Groundwater data

BETA

—

i

Why don't I see a groundwater graph?

No groundwater level statistical daily data has been reported for this location.





Source: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset,...

Interested in understanding how to access the upstream/downstream data? [Learn about the Network-Linked Data Index \(NLDI\)](#).

Summary of available field and laboratory sample data

No sample data is available.

Summary of all available data

USGS Parameter Group	Data Types	Start Date	End Date
Physical	Groundwater Levels	1948-12-06	1948-12-06

[Water Data for the Nation inventory](#)

Location metadata

Monitoring location 320758104041601 is associated with a Well in Eddy County, New Mexico. Water data back to 1948 are available online.

Metadata Element	Location Metadata	Metadata Code
Agency ⓘ	U.S. Geological Survey	USGS
Site identification number ⓘ	320758104041601	n/a
Site name ⓘ	25S.28E.15.23231	n/a

Metadata Element	Location Metadata	Metadata Code
Site type ⓘ	Well ⓘ	GW
DMS latitude	320758	n/a
DMS longitude	1040416	n/a
Decimal latitude	32.1329005	n/a
Decimal longitude	-104.0716005	n/a
Latitude-longitude method ⓘ	Interpolated from MAP.	M
Latitude-longitude accuracy ⓘ	Accurate to + or - 10 sec.	T
Latitude-longitude datum ⓘ	North American Datum of 1927	NAD27
Decimal Latitude-longitude datum	North American Datum of 1983	NAD83
District ⓘ	New Mexico	35
State ⓘ	New Mexico	35
County ⓘ	Eddy County	015
Country	US	n/a
Land net location description	NESWNES15 T25S R28E	n/a
Name of location map		n/a
Scale of location map		n/a

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Metadata Element	Questions or Comments	Metadata Code
Data reliability ⓘ	Unchecked data.	U
Data-other GW files	YYNYNN	n/a
National aquifer	Other aquifers	N9999OTHER
Local aquifer	Rustler Formation	312RSLR
Local aquifer type ⓘ		n/a
Well depth		n/a
Hole depth ⓘ		n/a
Source of depth data		n/a
Project number	463527100	n/a

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IMPORTANT

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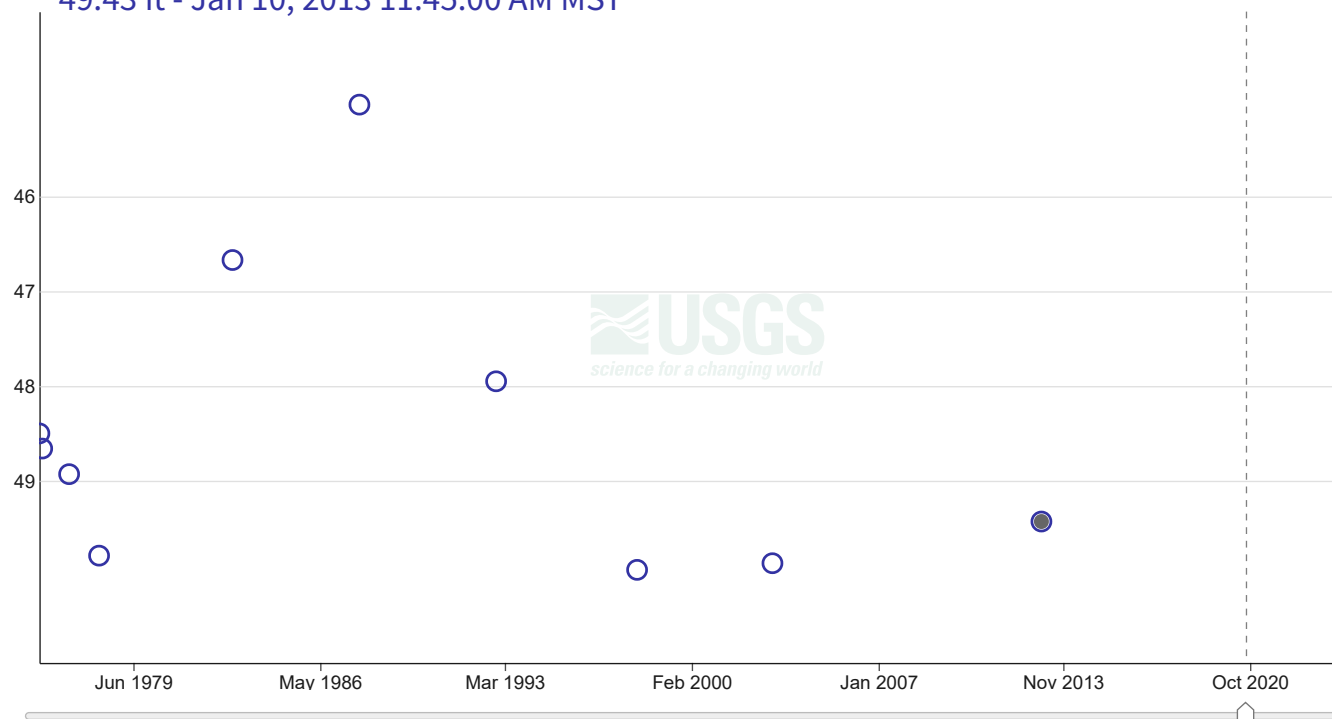
☐ 1 year ☐ 10 years ☒ Period of record

**25S.28E.15.23000 -
320749104041001**

December 9, 1975 - February 26, 2024

Depth to water level, ft below land surface

49.43 ft - Jan 10, 2013 11:45:00 AM MST



IMPORTANT

Data may be provisional

- Field visit

Hide legend ^

	Value	Status
<div><div><div></div><div>Selected</div></div><div>Jan 10, 2013 11:45:00 AM MST</div></div>	49.43 ft	Approved

Hide graph details ^

Statistics are not currently supported for the data type:

Hide statistics ^

Change time span

Download data

View data records

Start typing a time code to filter the Time column:

Depth to water level, ft below land surface -- field visit data

Time ↓	Result	Accuracy	Approval	Qualifiers
2013-01-10T11:45:00.000-07:00	49.43	0.01	Approved	Static
2003-01-27T00:00:00.000-07:00	49.87	0.01	Approved	Static
1998-01-23T00:00:00.000-07:00	49.94	0.01	Approved	Static
1992-11-04T00:00:00.000-07:00	47.95	0.01	Approved	Above, Pumping
1987-10-14T00:00:00.000-06:00	45.03	0.01	Approved	Static
1983-02-01T00:00:00.000-07:00	46.67	0.01	Approved	Static
1978-02-23T00:00:00.000-07:00	49.79	0.01	Approved	Static
1977-01-14T00:00:00.000-07:00	48.93	0.01	Approved	Static
1976-01-16T00:00:00.000-07:00	48.66	0.01	Approved	Static
1975-12-09T00:00:00.000-07:00	48.50	0.01	Approved	Static

Hide view data records ^

Select data to graph

☒ Depth to water level, ft below land surface

1975-12-09 to 2013-01-10

☐ Groundwater level above NAVD 1988, ft

1975-12-09 to 2013-01-10

☐ Groundwater level above NGVD 1929, feet

1975-12-09 to 2013-01-10

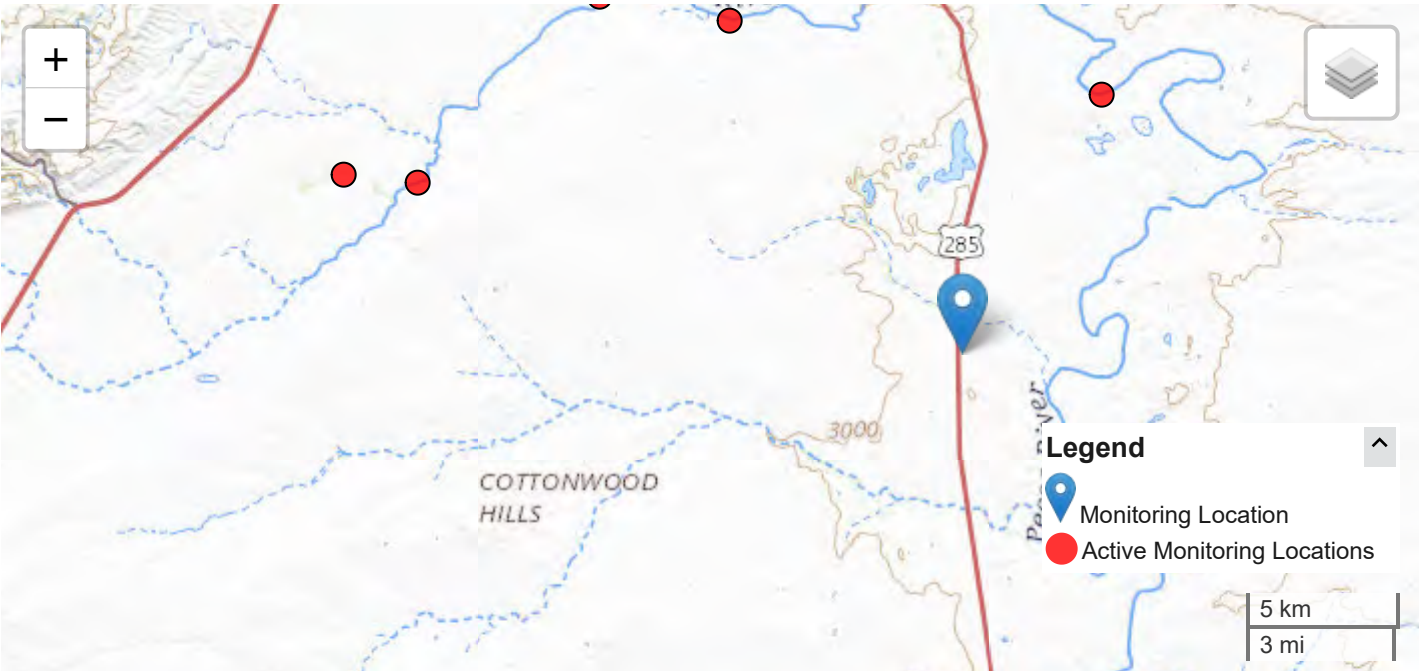
Monitoring camera

There are no cameras currently available at this monitoring location.

Groundwater data BETA

i Why don't I see a groundwater graph?

No groundwater level statistical daily data has been reported for this location.



Source: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset,...

Interested in understanding how to access the upstream/downstream data? [Learn about the Network-Linked Data Index \(NLDI\)](#).

Summary of available field and laboratory sample data

No sample data is available.

Summary of all available data

USGS Parameter Group	Data Types	Start Date	End Date
Physical	Groundwater Levels	1975-12-09	2013-01-10

Water Data for the Nation inventory

Location metadata

Monitoring location 320749104041001 is associated with a Well in Eddy County, New Mexico. Water data back to 1975 are available online.

Metadata Element	Location Metadata	Metadata Code
Agency ⓘ	U.S. Geological Survey	USGS
Site identification number ⓘ	320749104041001	n/a
Site name ⓘ	25S.28E.15.23000	n/a
Site type ⓘ	Well ⓘ	GW
DMS latitude	320754.6	n/a
DMS longitude	1040420.3	n/a
Decimal latitude	32.13183333	n/a
Decimal longitude	-104.0723056	n/a
Latitude-longitude method ⓘ	Mapping grade GPS unit (handheld accuracy range 12 to 40 ft)	G
Latitude-longitude accuracy ⓘ	Questions or Comments Accurate to + or - 3 sec (SPS GPS).	R
Latitude-longitude datum ⓘ	North American Datum of 1983	NAD83

Metadata Element	Location Metadata	Metadata Code
Decimal Latitude-longitude datum	North American Datum of 1983	NAD83
District ⓘ	New Mexico	35
State ⓘ	New Mexico	35
County ⓘ	Eddy County	015
Country	US	n/a
Land net location description	SWNE S15 T25S R28E	n/a
Name of location map	MALAGA	n/a
Scale of location map	24000	n/a
Altitude of Gage/land surface	2949.30	n/a
Method altitude determined	Interpolated from topographic map.	M
Altitude accuracy	05	n/a
Altitude datum ⓘ	National Geodetic Vertical Datum of 1929	NGVD29
Subbasin hydrologic unit ⓘ		13060011
Drainage basin ⓘ		n/a

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Metadata Element	Location Metadata	Metadata Code
Well depth	70	n/a
Hole depth ⓘ		n/a
Source of depth data		n/a
Project number	463527100	n/a

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Appendix B

Photographic Log

Photographic Log

Photo Number: 1	 <p>04Dec23 10:27 MOC, Hess SWD Malaga NM 88263, United States © 04-Dec-23 10:27:21</p>
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photo Number: 2	 <p>04Dec23 10:46 MOC, Hess SWD Malaga NM 88263, United States © 04-Dec-23 10:46:04</p>
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	
Photo Direction: North	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: South	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	
Photo Direction: South	
Photo Description: View of the affected area.	

Photo Number: 6	
Photo Direction: North	
Photo Description: View of the affected area.	


Photographic Log

Photo Number: 7	
Photo Direction: South	
Photo Description: View of the affected area.	

Photo Number: 8	
Photo Direction: West	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 9	
Photo Direction: East	
Photo Description: View of the affected area.	

Photo Number: 10	
Photo Direction: North	
Photo Description: View of the affected area.	

Photographic Log



Photo Number: 11	 <p>Jan 9, 2024 at 8:08:43 AM +32.151158,-104.049976 309° NW Malaga NM 88263 United States</p>
Photo Direction: Northwest	
Photo Description: View of the excavated area.	

Photo Number: 12	 <p>Jan 9, 2024 at 8:08:30 AM +32.151140,-104.049857 294° NW Malaga NM 88263 United States</p>
Photo Direction: West-Northwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 13	
Photo Direction: West-Northwest	
Photo Description: View of the excavated area.	

Photo Number: 14	
Photo Direction: West-Southwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 15	 <p>Jan 9, 2024 at 8:17:54 AM +32.151266,-104.049533 275° W Malaga NM 88263 United States</p>
Photo Direction: West	
Photo Description: View of the excavated area.	

Photo Number: 16	 <p>Jan 9, 2024 at 8:17:30 AM +32.151356,-104.049568 217° SW Malaga NM 88263 United States</p>
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 17	 <p>Jan 9, 2024 at 8:17:03 AM +32.151441, -104.049615 203° SW Malaga NM 88263 United States</p>
Photo Direction: South-Southwest	
Photo Description: View of the Deferral Area.	

Photo Number: 18	 <p>Jan 9, 2024 at 8:16:42 AM +32.151441, -104.049615 164° S Malaga NM 88263 United States</p>
Photo Direction: South-Southeast	
Photo Description: View of the Deferral Area and a portion of the excavated area.	


Photographic Log

Photo Number: 19	<div>Jan 9, 2024 at 8:15:34 AM +32.151725,-104.049668 157° SE Malaga NM 88263 United States</div>  A photograph showing a large, deep excavation in reddish-brown soil. In the background, several utility poles with cross-arms and wires are visible against a clear blue sky. A white rectangular container or trailer is parked on the right side of the excavation. The ground in the foreground is uneven and shows signs of being recently dug or disturbed.
Photo Direction: South-Southeast	
Photo Description: View of the excavated area.	

Photo Number: 20	<div>Jan 9, 2024 at 8:15:11 AM +32.151831,-104.049649 179° S Malaga NM 88263 United States</div>  A photograph of an excavated area, similar to the one in the previous photo. In the background, two large, cylindrical metal storage tanks are visible, partially obscured by a fence. Utility poles are also present. The excavation is deep, and the soil is reddish-brown. A white container is visible in the distance on the left.
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 21	 <p>Jan 9, 2024 at 8:14:34 AM +32.152097,-104.049669 171° S Malaga NM 88263 United States</p>
Photo Direction: South	
Photo Description: View of the excavated area.	

Photo Number: 22	 <p>Jan 9, 2024 at 8:13:57 AM +32.152095,-104.049920 100° E Malaga NM 88263 United States</p>
Photo Direction: East	
Photo Description: View of the excavated area.	

Photographic Log



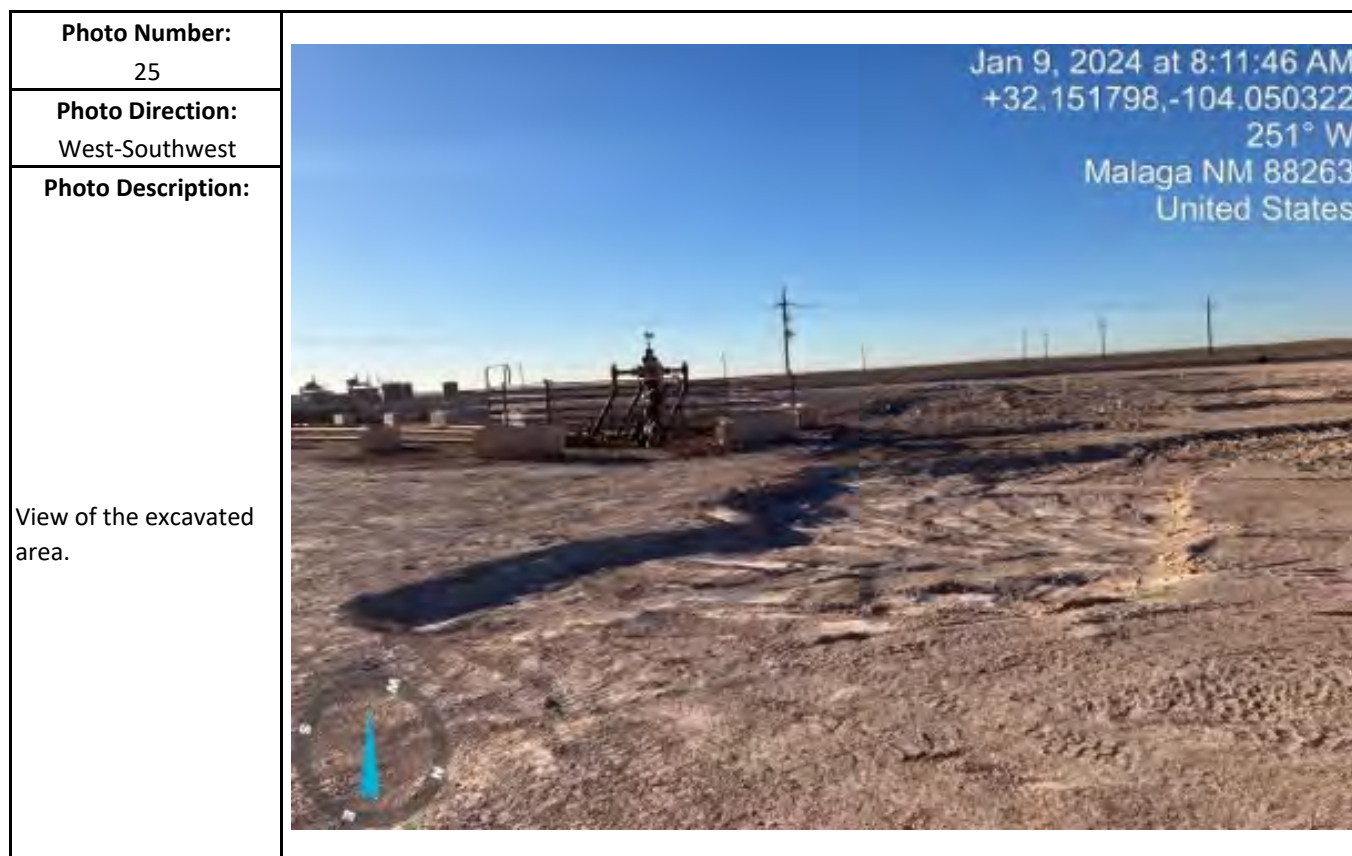
Photo Number: 23	 <p>Jan 9, 2024 at 8:13:37 AM +32.152081,-104.050041 89° E Malaga NM 88263 United States</p>
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 24	 <p>Jan 9, 2024 at 8:12:23 AM +32.151815,-104.049862 240° SW Malaga NM 88263 United States</p>
Photo Direction: West-Southwest	
Photo Description: View of the excavated area.	

Photographic Log



Photographic Log



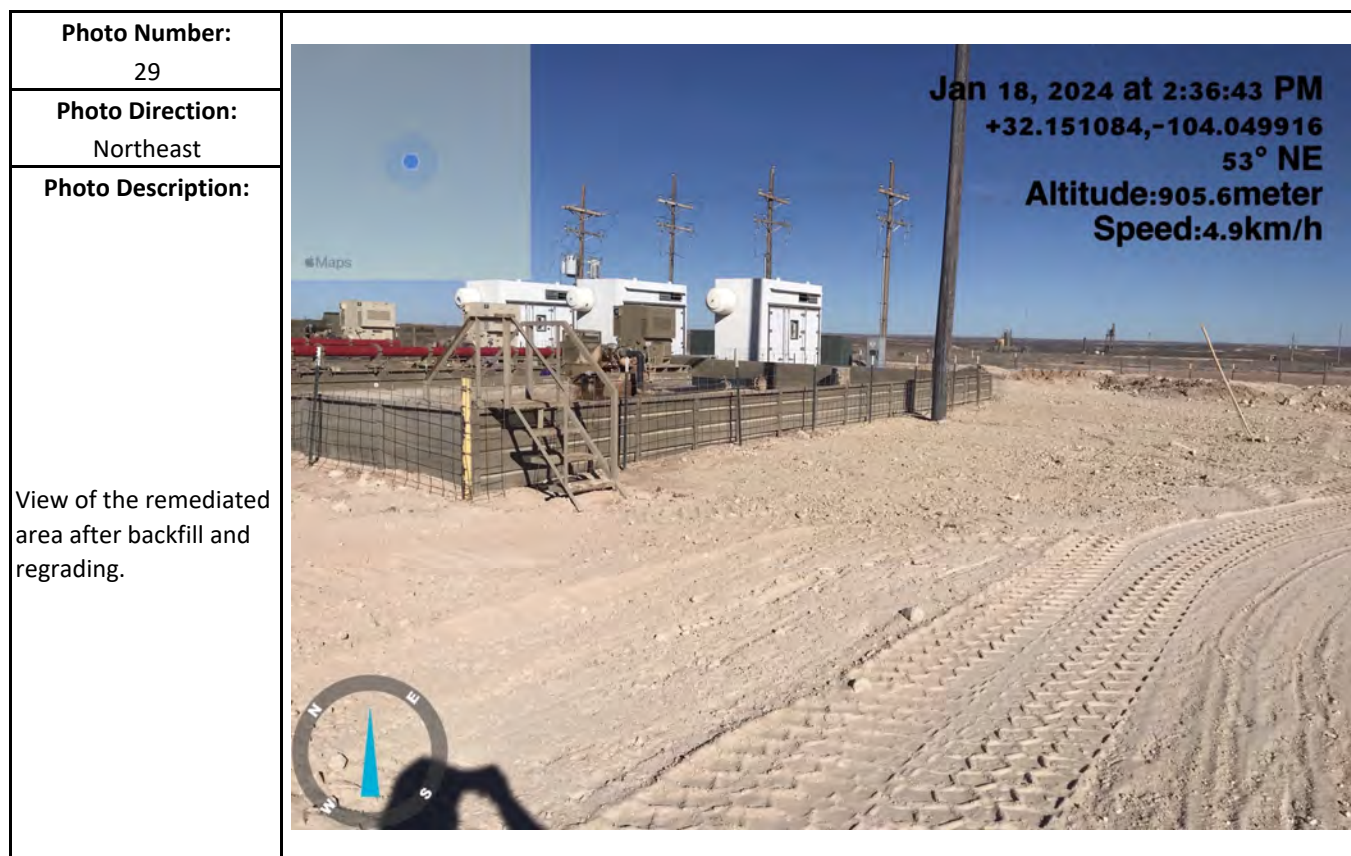
Photo Number: 27	
Photo Direction: East-Northeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 28	
Photo Direction: Northwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log



Photographic Log

Photo Number: 31	
Photo Direction: South-Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 32	
Photo Direction: Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log



Photo Number: 33	
Photo Direction: North	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 34	
Photo Direction: South-Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log



Photo Number: 35	
Photo Direction: West	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 36	
Photo Direction: East-Northeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log


Photo Number: 37	
Photo Direction: Northeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 38	
Photo Direction: East	
Photo Description: View of the remediated area after backfill and regrading.	

Appendix C

Field Data



Sample Log

Date: _____

Project: Hoss SWD #001H

Project Number: 19452 Latitude: 32.1515588 Longitude: -104.0501793

Sample ID	PID/Odor	Chloride Conc.	GPS
FL108 in	7.2	1944	
FL208 in	7.0	1816	
FL101 1/2	6.0	1297	
FL201 1/2	6.0	1292	
FL308"	6.4	1480	
FL408"	7.4	2080	
FL708"	4.6	768	
FL808"	3.4	444	
FL908"	4.0	592	
FL102'	8.0	2588	
FL202'	5.2	972	
FL302'	6.4	1480	
FL402'	6.0	1292	
FL502'	6.8	1696	
FL602'	3.6	488	
FL701 1/2	3.0	356	
FL901 1/2	3.2	396	
FL103'	5.0	625	
FL203'	6.0	1292	
FL303	6.0	1292	
FL403	6.8	1692	
FL503	7.0	1816	
FL103 1/2	4.0	592	
FL203 1/2	5.2	972	
FL104	3.6	488	
FL204	3.6	488	
FL304	2.6	280	
FL404	2.4	248	
FL504	2.0	188	
FL1008 in	4.8	832	
FL1108 in	3.8	540	
FL1208 in	3.8	540	
FL1308 in	3.0	356	
FL1408 in	3.6	488	
FL1508 in	4.4	708	

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: Hoss SWD #001H

Project Number: 19452 Latitude: 32.1515588 Longitude: -104.0501793

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 15 @ 1 1/2'	3.4 - None	444	
FL 10 @ 1 1/2'	3.6 -	488	
FL 16 @ 8 in	3.6 -	488	
FL 17 @ 8 in	3.6 -	488	
FL 18 @ 8 in	3.0 -	356	
FL 19 @ 8 in	2.4 -	260	
FL 20 @ 8 in	3.4 -	260	
FL 21 @ 8 in	3.2 -	396	
FL 22 @ 8 in	3.8 -	540	
FL 23 @ 8 in	3.6 -	488	
FL 24 @ 8 in	3.2 -	396	
FL 25 @ 8 in	3.0 -	356	
FL 26 @ 8 in	4.2 -	660	
FL 27 @ 8 in	7.0 -	1860	
FL 28 @ 8 in	3.2 -	396	
FL 29 @ 8 in	2.8 -	228	
FL 30 @ 8 in	3.0 -	356	
FL 31 @ 8 in	3.0 -	356	
FL 32 @ 8 in	3.4 -	444	
FL 33 @ 8 in	3.6 -	488	
FL 26 @ 1 1/2'	3.4 -	444	
FL 27 @ 1 1/2'	3.4 -	444	
NW 1	3.4 -	444	
SW 1	3.8 -	540	
SW 2	3.4 -	444	
EW 1	3.4 -	444	
WW 1	3.4 -	444	
FL 34 @ 8 in	2.6 -	260	
FL 35 @ 8 in	3.8 -	540	
FL 36 @ 8 in	3.0 -	356	
FL 37 @ 8 in	3.4 -	444	
FL 38 @ 8 in	3.2 -	396	
FL 39 @ 8 in	4.6 -	768	
FL 40 @ 8 in	5.8 -	1294	
FL 41 @ 8 in	5.2 -	988	
FL 42 @ 8 in	4.4 -	724	

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: Hoss SWD #001H

Project Number: 19452 Latitude: 32.1515588 Longitude: -104.0501793

Sample ID	PID/Odor	Chloride Conc.	GPS
FL4306in	3.2	None	396
FL4406in	3.0	—	356
FL4506in	3.2	—	396
FL4606in	3.8	—	540
FL4706in	3.6	—	488
FL4806in	3.4	—	444
FL4906in	2.8	—	328
FL5006in	3.0	—	356
FL5106in	3.0	—	356
FL5206in	2.8	—	540
FL5306in	3.2	—	396
FL5406in	3.6	—	488
FL3901 1/2	3.8	—	540
FL4001 1/2	3.8	—	540
FL4101 1/2	3.8	—	540
FL4201 1/2	3.8	—	540
FL5506in	3.4	—	444
FL5606in	3.2	—	396
FL5706in	6.6	—	1016
FL5806in	8.0	—	2280
FL5906in	5.4	—	1016
FL6006in	6.0	—	1312
FL6106in	6.0	—	1312
FL6206in	6.4	—	1508
FL6306	3.8	—	540
FL6406	6.2	—	1408
FL6506	6.0	—	1312
FL6606	3.8	—	540
FL6706	3.8	—	540
FL5801'	3.0	—	356
FL5901'	2.6	—	280
FL6001'	3.6	—	488
FL6101'	3.6	—	488
FL6201'	3.0	—	356
FL6401'	3.4	—	444
FL6501'	3.6	—	488

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
FL 57 @ 1'	2.8	328	
FL 68 @ 6"	3.8	540	
FL 69 @ 6"	3.8	540	
FL 70 @ 6"	3.2	396	
FL 71 @ 6"	3.6	488	
FL 72 @ 6"	3.0	356	
FL 73 @ 6"	3.2	396	
FL 74 @ 6"	3.0	356	
FL 75 @ 6"	3.6	488	
FL 76 @ 6"	3.6	488	
FL 77 @ 6"	3.2	396	
FL 78 @ 6"	3.2	396	
FL 79 @ 6"	3.2	396	
FL 80 @ 6"	3.6	488	
FL 81 @ 6"	3.2	396	
FL 82 @ 6"	3.6	488	
FL 83 @ 6"	3.4	456	
FL 84 @ 6"	3.8	540	
FL 85 @ 6"	6.8	1732	
FL 86 @ 6"	3.6	488	
FL 87 @ 6"	8.0	2588	
FL 88 @ 6"	6.0	1312	
FL 89 @ 6"	3.4	456	
FL 85 @ 1'	3.2	396	
FL 87 @ 1'	3.0	356	
FL 88 @ 1'	3.4	396	
FL 90 @ 6"	3.0	356	
FL 91 @ 6"	3.2	396	
FL 92 @ 6"	3.6	488	
FL 93 @ 6"	3.4	396	
FL 94 @ 6"	3.4	396	
FL 95 @ 6"	3.0	356	
FL 96 @ 6"	2.8	328	
FL 97 @ 6"	3.0	356	
WW 3	2.0	188	
WW 2	2.6	280	

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
FL98@6"	non	1,712	
FL99@6"	-	2,480	
FL100@6"	-	1,860	
FL101@6"	-	1,508	
FL102@6"	-	1,992	
FL103@6"	-	1,136	
FL104@6"	-	1,220	
FL105@6"	-	1,312	
FL106@6"	-	1,816	
FL107@6"	-	2,480	
FL108@6"	-	716	
FL109@6"	-	1,056	
FL110@6"	-	908	
FL111@6"	-	604	
FL112@6"	-	604	
FL98@1ft	-	908	
FL99@1ft	-	840	
FL100@1ft	-	1,712	
FL101@1ft	-	1,056	
FL102@1ft	-	1,860	
FL113@6"	-	1,220	
FL114@6"	-	1,056	
FL103@1ft	-	840	
FL104@1ft	-	908	
FL105@1ft	-	412	
FL106@1ft	-	500	
FL98@2ft	-	716	
FL99@2ft	-	552	
FL98@3ft	-	196	
FL100@2ft	-	412	
FL101@2ft	-	368	
FL102@2ft	-	552	
FL103@2ft	-	172	
FL104@2ft	-	172	

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
FL 39 @ 2	5.0 - None	908	
FL 39 @ 3	3.2 -	396	
FL 38 @ 1	3.2 -	396	
FL 37 @ 1	8.0 -	7588	
NW4	8.0 -	2588	
FL 37 @ 2	4.2 -	660	
FL 37 @ 3	3.8 -	540	
FL 36 @ 3	3.6 -	488	
FL 35 @ 2	3.2 -	396	
FL 34 @ 3	2.0 -	188	
NW4	-	188	
NW5	-	396	
FL 110 @ 1	3.2 -	480	
FL 111 @ 1	3.0 -	480	
FL 112 @ 1	3.8 -	540	
FL 107 @ 1	5.6 -	1136	
FL 108 @ 1	5.0 -	908	
FL 109 @ 1	4.6 -	768	
WW4	3.2 -	396	
WW5	3.0 -	356	
FL 107 @ 2	3.6 -	480	
FL 108 @ 2	3.6 -	480	
FL 109 @ 2	3.2 -	396	
WW1 B	3.0 -	356	
SW1 B	3.6 -	480	
113 @ 6"	-	2176	
114 @ 6"	-	5,224	
115 @ 6"	-	1,996	
FL 113 @ 2'	-	2,140	
FL 114 @ 2'	-	2,896	
FL 115 @ 2'	-	1,992	
FL 113 @ 3'	-	2,140	
FL 114 @ 3'	-	2,140	
FL 115 @ 3'	-	2,480	
FL 113 @ 4'	-	332	
FL 114 @ 4'	-	368	

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
FL-144@4'	-	776	
FL-146@5'	-	368	
DEF-1 @ 6"	-	1000 2,896	
DEF-1 @ 1'	-	2,480	
DEF-1 @ 2'	-	2,340	
DEF-1 @ 3'	-	1,616	
DEF-2 @ 6"	-	3,768	
FL-120@6"	-	776	
FL-120@2'	-	2,304	
FL-119@2'	-	2,896	
FL-120@3'	-	1,992	
FL-119@3'	-	1,860	
FL-119@4'	-	908	
FL-120@4'	-	552	
FL-119@5'	-	552	
FL-121@1'	-	840	
FL-122@1'	-	908	
FL-121@2'	-	500	
FL-122@2'	-	500	
FL-123@1'	-	1,220	
FL-124@1'	-	980	
FL-123@2'	-	1,136	
FL-124@2'	-	840	
FL-123@3'	-	552	
FL-124@3'	-	552	
FL-125@1'	-	772	
SW-2	-	456	
FL-125@6"	-	552	
FL-126@6"	-	368	
NW-1	-	552	
NW-7	-	988	
FL-126@6"	-	456	
FL-125@6"	-	500	
EW-8	-	412	
SW-4	-	456	
NW-6	-	552	

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
NW2 2.4	None	266	
FL150 @ 8in 8.0	—	2588	
FL149 @ 8in 8.0	—	2588	
FL148 @ 8in 8.0	—	2588	
FL150 @ 2' 7.0	—	1860	
FL149 @ 2' 6.4	—	1480	
FL148 @ 2' 4.6	—	768	
FL150 @ 3 3.4	—	444	
FL149 @ 3 4.4	—	704	
FL148 @ 3 3.4	—	440	
FL147 @ 4 2.0	—	188	
FL147 @ 3 2.2	—	228	
FL146 @ 3 3.0	—	356	
FL145 @ 3 5.8	—	1220	
FL145 @ 4 4.2	—	666	
FL145 @ 5 5.2	—	972	
FL145 @ 6 3.2	—	396	
FL144 @ 2 5.2	—	972	
FL143 @ 2 4.6	—	768	
FL142 @ 2 3.2	—	396	
FL144 @ 3 5.0	—	908	
FL143 @ 3 2.8	—	228	
FL144 @ 4 4.6	—	768	
FL141 @ 2 6.8	—	1732	
FL140 @ 2 6.0	—	1312	
FL144 @ 5 3.6	—	488	
NW3 3.2	—	396	
EW2 3.6	—	488	
EW3 3.6	—	488	
EW4 5.0	—	968	
EW5 6.0	—	1312	
FL141 @ 3 8.0	—	2588	
FL141 @ 4 2.4	—	260	
FL140 @ 3 3.0	—	356	
EW4 2.8	—	228	
EW5 3.2	—	396	

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

Appendix D

Laboratory Analytical Reports



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

December 20, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: HOSS SWD #001H

Enclosed are the results of analyses for samples received by the laboratory on 12/15/23 14:48.

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.

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: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 1 @ 4' (H236699-01)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	13.4		
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10		
Total BTX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	12/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	164	81.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	175	87.6	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 2 @ 4' (H236699-02)

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	12/18/2023	ND	2.07	103	2.00	13.4		
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	12/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	164	81.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	175	87.6	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 49.1-148

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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: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 3 @ 4' (H236699-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	13.4		
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10		
Total BTEx	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	164	81.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	175	87.6	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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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: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 4 @ 4' (H236699-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	13.4		
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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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: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 5 @ 4' (H236699-05)

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	12/18/2023	ND	2.07	103	2.00	13.4	
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 6 @ 2' (H236699-06)

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	12/18/2023	ND	2.07	103	2.00	13.4		
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 7 @ 1.5' (H236699-07)

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	12/18/2023	ND	2.07	103	2.00	13.4		
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	12/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.5 % 49.1-148

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 8 @ 8" (H236699-08)

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	12/18/2023	ND	2.07	103	2.00	13.4		
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 49.1-148

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 9 @ 1.5' (H236699-09)

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	12/18/2023	ND	2.07	103	2.00	13.4	
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 66.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.2 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 10 @ 1.5' (H236699-10)

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	12/18/2023	ND	2.07	103	2.00	13.4		
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 64.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.0 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 11 @ 8" (H236699-11)

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	12/18/2023	ND	2.07	103	2.00	13.4		
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 64.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.2 % 49.1-148

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 12 @ 8" (H236699-12)

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	12/18/2023	ND	2.07	103	2.00	13.4		
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 60.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.8 % 49.1-148

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 13 @ 8" (H236699-13)

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	12/18/2023	ND	2.07	103	2.00	13.4		
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 66.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.8 % 49.1-148

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 14 @ 8" (H236699-14)

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	12/18/2023	ND	2.07	103	2.00	13.4		
Toluene*	<0.050	0.050	12/18/2023	ND	1.99	99.4	2.00	9.50		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.04	102	2.00	8.68		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.08	101	6.00	8.10		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 67.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.9 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 15 @ 1.5' (H236699-15)

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	12/18/2023	ND	2.09	105	2.00	8.79	
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 67.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.0 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 16 @ 8" (H236699-16)

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	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 54.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.6 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 17 @ 8" (H236699-17)

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	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 66.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.5 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
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Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 18 @ 8" (H236699-18)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 19 @ 8" (H236699-19)

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	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 61.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.0 % 49.1-148

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 20 @ 8" (H236699-20)

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	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 65.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.8 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 21 @ 8" (H236699-21)

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	12/18/2023	ND	2.09	105	2.00	8.79	
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 67.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.7 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 22 @ 8" (H236699-22)

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	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 68.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.4 % 49.1-148

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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: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 23 @ 8" (H236699-23)

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	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	173	86.3	200	2.93	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	167	83.5	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 64.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.7 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 24 @ 8" (H236699-24)

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	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 25 @ 8" (H236699-25)

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	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 68.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.4 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 26 @ 1.5' (H236699-26)

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	12/18/2023	ND	2.09	105	2.00	8.79	
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 55.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 53.5 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 27 @ 1.5' (H236699-27)

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	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	12/18/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 65.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.8 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 28 @ 8" (H236699-28)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/18/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 64.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.8 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 29 @ 8" (H236699-29)

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	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/18/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.8 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 30 @ 8" (H236699-30)

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	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/18/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 64.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.6 % 49.1-148

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Analytical Results For:

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

Received: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 31 @ 8" (H236699-31)

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	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/18/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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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: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 32 @ 8" (H236699-32)

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	12/18/2023	ND	2.09	105	2.00	8.79		
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	12/18/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 62.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.3 % 49.1-148

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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: 12/15/2023
 Reported: 12/20/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 33 @ 8" (H236699-33)

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	12/18/2023	ND	2.09	105	2.00	8.79	
Toluene*	<0.050	0.050	12/18/2023	ND	2.06	103	2.00	8.78	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.02	101	2.00	9.08	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.43	107	6.00	8.29	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	12/18/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 63.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.7 % 49.1-148

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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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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Lance Crenshaw				P.O. #:																			
Address: 2617 West Marland				Company: Mewbourne																			
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																			
Phone #: (575) 264-9884 Fax #:				Address:																			
Project #: 19452 Project Owner: Mewbourne				City:																			
Project Name: Hoss SWD #00TH				State: NM Zip:																			
Project Location: 32.1515588, -104.0501793				Phone #:																			
Sampler Name: Dominic Casarez				Fax #:																			
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING		Chloride TPH (8015M) BTEX (8021B)											
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE: ICE / COOL	OTHER :	DATE	TIME												
H231U699		C 1	X					X		12/15/23		X X X											
1	FL1 @ 4'	C 1	X					X		12/15/23		X X X											
2	FL2 @ 4'	C 1	X					X		12/15/23		X X X											
3	FL3 @ 4'	C 1	X					X		12/15/23		X X X											
4	FL4 @ 4'	C 1	X					X		12/15/23		X X X											
5	FL5 @ 4'	C 1	X					X		12/15/23		X X X											
6	FL6 @ 2'	C 1	X					X		12/15/23		X X X											
7	FL7 @ 1.5'	C 1	X					X		12/15/23		X X X											
8	FL8 @ 8"	C 1	X					X		12/15/23		X X X											
9	FL9 @ 1.5'	C 1	X					X		12/15/23		X X X											
10	FL10 @ 1.5'	C 1	X					X		12/15/23		X X X											
<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: [Signature]				Date: 12-15-23 Time: 448				Received By: [Signature]				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:											
Delivered By: (Circle One)				-3.9c				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				CHECKED BY: (Initials) SR				Please email results and copy of CoC to pm@etechenv.com.							
Sampler - UPS - Bus - Other:				#140																			



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 37 of 39

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
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 #: 19452 Project Owner: Mewbourne				City:																							
Project Name: Hoss SWD #001H				State: NM Zip:																							
Project Location: 32.1515588, -104.0501793				Phone #:																							
Sampler Name: Dominic Casarez				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME													
H23101099																											
11	FL11 @ 8"	C	1			X				X			12/15/23		X	X	X										
12	FL12 @ 8"	C	1			X				X			12/15/23		X	X	X										
13	FL13 @ 8"	C	1			X				X			12/15/23		X	X	X										
14	FL14 @ 8"	C	1			X				X			12/15/23		X	X	X										
15	FL15 @ 1.5'	C	1			X				X			12/15/23		X	X	X										
16	FL16 @ 8"	C	1			X				X			12/15/23		X	X	X										
17	FL17 @ 8"	C	1			X				X			12/15/23		X	X	X										
18	FL18 @ 8"	C	1			X				X			12/15/23		X	X	X										
19	FL19 @ 8"	C	1			X				X			12/15/23		X	X	X										
20	FL20 @ 8"	C	1			X				X			12/15/23		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: <i>[Signature]</i>				Date: 12-15-23		Received By: <i>[Signature]</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
				Time: 1448						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:																							
Delivered By: (Circle One)				-3.92		Sample Condition				CHECKED BY: (Initials)																	
Sampler - UPS - Bus - Other:				#140		Cool Intact				SJC																	
						<input type="checkbox"/> Yes <input type="checkbox"/> No																					
						<input type="checkbox"/> No <input type="checkbox"/> No																					

FORM-006
Revision 1.0

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


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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 38 of 39

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 19452 Project Owner: Mewbourne Project Name: Hoss SWD #001H Project Location: 32.1515588, -104.0501793 Sampler Name: Dominic Casarez				BILL TO				ANALYSIS REQUEST																		
				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>																				
				Company: Mewbourne																						
				Attn: Connor Walker																						
				Address:																						
				City:																						
				State: NM Zip:																						
				Phone #:																						
				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												
H2BUN099																										
21	FL21 @ 8"	C	1			X				X			12/15/23			X	X	X								
22	FL22 @ 8"	C	1			X				X			12/15/23			X	X	X								
23	FL23 @ 8"	C	1			X				X			12/15/23			X	X	X								
24	FL24 @ 8"	C	1			X				X			12/15/23			X	X	X								
25	FL25 @ 8"	C	1			X				X			12/15/23			X	X	X								
26	FL26 @ 1.5'	C	1			X				X			12/15/23			X	X	X								
27	FL27 @ 1.5'	C	1			X				X			12/15/23			X	X	X								
28	FL28 @ 8"	C	1			X				X			12/15/23			X	X	X								
29	FL29 @ 8"	C	1			X				X			12/15/23			X	X	X								
30	FL30 @ 8"	C	1			X				X			12/15/23			X	X	X								

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Relinquished By: 		Date: 12-15-23 Time: 1448		Received By: 		Date: Time:		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:		Date: Time:		REMARKS:	

Delivered By: (Circle One) -3.92 #140

Sampler - UPS - Bus - Other: Sample Condition

Cool	Intact	CHECKED BY:
<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	(Initials)
<input type="checkbox"/> No	<input type="checkbox"/> No	

Please email results and copy of CoC to pm@etechenv.com.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

December 21, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: HOSS SWD #001H

Enclosed are the results of analyses for samples received by the laboratory on 12/18/23 14:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	HOSS SWD #001H	Sampling Condition:	Cool & Intact
Project Number:	19452	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: NW - 1 (H236715-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	12/19/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 68.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW - 1 (H236715-02)

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	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	12/19/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 1 (H236715-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	12/19/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 2 (H236715-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	12/19/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW - 1 (H236715-05)

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	12/19/2023	ND	2.28	114	2.00	4.33		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	12/19/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 34 @ 8" (H236715-06)

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	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	12/19/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Fax To:

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 35 @ 8" (H236715-07)

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	12/19/2023	ND	2.28	114	2.00	4.33		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/19/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 36 @ 8" (H236715-08)

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	12/19/2023	ND	2.28	114	2.00	4.33		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	12/19/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 49.1-148

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Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 37 @ 8" (H236715-09)

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	12/19/2023	ND	2.28	114	2.00	4.33		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

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	12/19/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 38 @ 8" (H236715-10)

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	12/19/2023	ND	2.28	114	2.00	4.33		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

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	12/19/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 43 @ 6" (H236715-11)

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	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

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	12/19/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 44 @ 6" (H236715-12)

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	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

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	12/19/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 64.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 45 @ 6" (H236715-13)

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	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	12/19/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 46 @ 6" (H236715-14)

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	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	12/19/2023	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	12/20/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 70.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 47 @ 6" (H236715-15)

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	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	12/19/2023	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	12/20/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 48 @ 6" (H236715-16)

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	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/19/2023	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	12/20/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 49 @ 6" (H236715-17)

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	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/19/2023	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	12/20/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 50 @ 6" (H236715-18)

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	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/19/2023	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	12/20/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 51 @ 6" (H236715-19)

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	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/19/2023	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	12/20/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 66.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.7 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 52 @ 6" (H236715-20)

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	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/19/2023	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	12/20/2023	ND	196	98.1	200	0.134	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	196	98.0	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 53 @ 6" (H236715-21)

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	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	2.83	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	194	97.0	200	0.551	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 62.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/18/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 54 @ 6" (H236715-22)

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	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	2.83	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	194	97.0	200	0.551	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 65.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

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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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 25 of 27

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 19452 Project Owner: Mewbourne Project Name: Hoss SWD #001H Project Location: 32.1515588, -104.0501793 Sampler Name: Dominic Casarez				BILL TO P.O. #: Company: Mewbourne Attn: Connor Walker Address: City: State: NM Zip: Phone #: Fax #:				ANALYSIS REQUEST																			
FOR LAB USE ONLY Lab I.D. H236715 Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS)		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				PRESERV. ACID/BASE ICE / COOL OTHER:		SAMPLING DATE TIME		Chloride TPH (8015M) BTEX (8021B)															
1 NW-1		C 1		X				X		12/15/23		X		X		X											
2 EW-1		C 1		X				X		12/15/23		X		X		X											
3 SW-1		C 1		X				X		12/15/23		X		X		X											
4 SW-2		C 1		X				X		12/15/23		X		X		X											
5 WW-1		C 1		X				X		12/15/23		X		X		X											
6 FL-34 @ 8"		C 1		X				X		12/15/23		X		X		X											
7 FL-35 @ 8"		C 1		X				X		12/15/23		X		X		X											
8 FL-36 @ 8"		C 1		X				X		12/15/23		X		X		X											
9 FL-37 @ 8"		C 1		X				X		12/15/23		X		X		X											
10 FL-38 @ 8"		C 1		X				X		12/15/23		X		X		X											
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Relinquished By: Date: 12-18-23 Time: 14:23 Relinquished By: Date: Time:				Received By: Date: Time:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:				Please email results and copy of CoC to pm@etechenv.com.															
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No				CHECKED BY: (Initials) 																			

FORM-006
Revision 1.0

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 26 of 27

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 19452 Project Owner: Mewbourne Project Name: Hoss SWD #001H Project Location: 32.1515588, -104.0501793 Sampler Name: Dominic Casarez				BILL TO P.O. #: Company: Mewbourne Attn: Connor Walker Address: City: State: NM Zip: Phone #: Fax #:				ANALYSIS REQUEST													
FOR LAB USE ONLY Lab I.D. H236215		Sample I.D.		(G/RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER		MATRIX PRESERV. ACID/BASE ICE / COOL OTHER		SAMPLING DATE TIME		Chloride TPH (8015M) BTEX (8021B)											
11	FL-43 @ 6"	C	1		X			X	12/15/23		X	X	X								
12	FL-44 @ 6"	C	1		X			X	12/15/23		X	X	X								
13	FL-45 @ 6"	C	1		X			X	12/15/23		X	X	X								
14	FL-46 @ 6"	C	1		X			X	12/15/23		X	X	X								
15	FL-47 @ 6"	C	1		X			X	12/15/23		X	X	X								
16	FL-48 @ 6"	C	1		X			X	12/15/23		X	X	X								
17	FL-49 @ 6"	C	1		X			X	12/15/23		X	X	X								
18	FL-50 @ 6"	C	1		X			X	12/15/23		X	X	X								
19	FL-51 @ 6"	C	1		X			X	12/15/23		X	X	X								
20	FL-52 @ 6"	C	1		X			X	12/15/23		X	X	X								
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																					
Relinquished By: Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Date: 12-15-23 Time: 14:23 Date: Time:				Received By: Received By: 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) 				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: Please email results and copy of CoC to pm@etechenv.com.					

FORM-006
Revision 1.0

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

December 21, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: HOSS SWD #001H

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 14:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	HOSS SWD #001H	Sampling Condition:	Cool & Intact
Project Number:	19452	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FL 39 @ 1 1/2 FT (H236748-01)

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	12/20/2023	ND	2.07	103	2.00	0.966	
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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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: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 40 @ 1 1/2 FT (H236748-02)

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	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	12/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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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: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 41 @ 1 FT (H236748-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.9 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 42 @ 1 FT (H236748-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	12/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 55 @ 6 IN. (H236748-05)

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	12/20/2023	ND	2.07	103	2.00	0.966	
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	12/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 56.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.4 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 56 @ 6 IN. (H236748-06)

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	12/20/2023	ND	2.07	103	2.00	0.966	
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	12/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 57 @ 1 FT (H236748-07)

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	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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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: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 58 @ 1 FT (H236748-08)

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	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEx	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 59 @ 1 FT (H236748-09)

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	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 64.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.2 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 60 @ 1 FT (H236748-10)

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	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEx	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	HOSS SWD #001H	Sampling Condition:	Cool & Intact
Project Number:	19452	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FL 61 @ 1 FT (H236748-11)

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	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 62 @ 1 FT (H236748-12)

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	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 63 @ 6 " (H236748-13)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

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	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 64 @ 6 " (H236748-14)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

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	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 49.1-148

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 65 @ 6 " (H236748-15)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 66 @ 6 " (H236748-16)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	12/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 67 @ 6 " (H236748-17)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

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	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 72.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.1 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 68 @ 6 " (H236748-18)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

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	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 69 @ 6 " (H236748-19)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

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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: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 70 @ 6 " (H236748-20)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

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	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 71 @ 6 " (H236748-21)

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	12/20/2023	ND	2.61	131	2.00	7.03	
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

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	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.0 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 72 @ 6 " (H236748-22)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

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	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 73 @ 6 " (H236748-23)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 74 @ 6 " (H236748-24)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 70.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 75 @ 6 " (H236748-25)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 76 @ 6 " (H236748-26)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

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	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 64.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.2 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 77 @ 6 " (H236748-27)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

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	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 64.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.8 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 78 @ 6 " (H236748-28)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

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	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.3 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 79 @ 6 " (H236748-29)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/20/2023	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 80 @ 6 " (H236748-30)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/20/2023	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 81 @ 6 " (H236748-31)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/20/2023	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 82 @ 6 " (H236748-32)

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	12/20/2023	ND	2.61	131	2.00	7.03		
Toluene*	<0.050	0.050	12/20/2023	ND	2.44	122	2.00	0.740		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	1.07		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.35	123	6.00	2.40		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/20/2023	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 83 @ 6 " (H236748-33)

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	12/20/2023	ND	2.45	123	2.00	4.07		
Toluene*	<0.050	0.050	12/20/2023	ND	2.32	116	2.00	0.0634		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.38	119	2.00	1.28		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.19	120	6.00	1.63		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/20/2023	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 84 @ 6 " (H236748-34)

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	12/20/2023	ND	2.45	123	2.00	4.07		
Toluene*	<0.050	0.050	12/20/2023	ND	2.32	116	2.00	0.0634		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.38	119	2.00	1.28		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.19	120	6.00	1.63		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/20/2023	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 85 @ 1' (H236748-35)

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	12/20/2023	ND	2.45	123	2.00	4.07		
Toluene*	<0.050	0.050	12/20/2023	ND	2.32	116	2.00	0.0634		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.38	119	2.00	1.28		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.19	120	6.00	1.63		
Total BTEx	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	12/20/2023	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 65.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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Analytical Results For:

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

Received: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 86 @ 6 " (H236748-36)

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	12/20/2023	ND	2.45	123	2.00	4.07		
Toluene*	<0.050	0.050	12/20/2023	ND	2.32	116	2.00	0.0634		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.38	119	2.00	1.28		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.19	120	6.00	1.63		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/20/2023	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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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: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 87 @ 6 " (H236748-37)

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	12/20/2023	ND	2.45	123	2.00	4.07		
Toluene*	<0.050	0.050	12/20/2023	ND	2.32	116	2.00	0.0634		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.38	119	2.00	1.28		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.19	120	6.00	1.63		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/20/2023	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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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: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 88 @ 1' (H236748-38)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.45	123	2.00	4.07		
Toluene*	<0.050	0.050	12/20/2023	ND	2.32	116	2.00	0.0634		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.38	119	2.00	1.28		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.19	120	6.00	1.63		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/20/2023	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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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: 12/19/2023
 Reported: 12/21/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 89 @ 1' (H236748-39)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.45	123	2.00	4.07	
Toluene*	<0.050	0.050	12/20/2023	ND	2.32	116	2.00	0.0634	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.38	119	2.00	1.28	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.19	120	6.00	1.63	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/20/2023	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	184	92.2	200	3.65	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	174	86.8	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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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-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.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.			BILL TO			ANALYSIS REQUEST																																																		
Project Manager: Lane Crengshaw			P.O. #:			Chloride TPH (8015M) BTEX (8021B)																																																		
Address: 2617 West Marland			Company: Mewbourn																																																					
City: Hobbs State: NM Zip: 88240			Attn: Jeff Broom																																																					
Phone #: (575) 264-9884 Fax #:			Address:																																																					
Project #: 19452 Project Owner: Mewbourn			City: Hobbs																																																					
Project Name: Hoss SWD #001 H			State: NM Zip:																																																					
Project Location: Rural eddy			Phone #:																																																					
Sampler Name: Dominic Casarez			Fax #:																																																					
FOR LAB USE ONLY			MATRIX			PRESERV.			SAMPLING																																															
Lab I.D.			Sample I.D.			(GRAB OR C)COMP			# CONTAINERS			GROUNDWATER			WASTEWATER			SOIL			SLUDGE			OTHER			ACID/BASE			ICE / COOL			OTHER			DATE			TIME																	
H236748																																																								
DC 1 FL 39 @ 1 1/2'																																																								
2 FL 40 @ 1 1/2'																																																								
3 FL 41 @ 1'																																																								
4 FL 42 @ 1'																																																								
5 FL 55 @ 6in																																																								
6 FL 56 @ 6in																																																								
7 FL 57 @ 1ft																																																								
8 FL 58 @ 1ft																																																								
9 FL 59 @ 1ft																																																								
10 FL 60 @ 1ft																																																								
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and the amount of any recovery shall be limited to the amount paid by the client for the services. 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 consequential damages, including indirect, special, business interruption, 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 by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																																								
Relinquished By: [Signature]															Date: 12-19-23										Received By: [Signature]										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																					
															Time: 1414																				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:																					
Relinquished By:															Date:										Received By:										REMARKS:																					
															Time:																																									
Delivered By: (Circle One)															#140										Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact										CHECKED BY: (Initials)																					
Sampler - UPS - Bus - Other: -8.0c																									<input type="checkbox"/> Yes <input type="checkbox"/> No										20																					
Please email copy of COC and results to pm@etechenv.com																																																								



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. Project Manager: Lane Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 19452 Project Owner: Melbourn Project Name: Hoss SWD #001 H Project Location: Rural eddy Sampler Name: Daninic Casarez				BILL TO P.O. #: Company: Melbourn Attn: Jeff Broom Address: City: Hobbs State: NM Zip: Phone #: Fax #:				ANALYSIS REQUEST															
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.		Sample I.D.		GIRAB OR (C)OMP		CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER	
H236748				C		1																	
11 FL 61 @ 1'																							
12 FL 62 @ 1'																							
13 FL 63 @ 6"																							
14 FL 64 @ 6"																							
15 FL 65 @ 6"																							
16 FL 66 @ 6"																							
17 FL 67 @ 6"																							
18 FL 68 @ 6"																							
19 FL 69 @ 6"																							
20 FL 70 @ 6"																							
<small>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims for damages shall be limited to the amount paid by the client for the analysis. Cardinal shall not be liable for consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client or its subsidiaries. Cardinal and its subsidiaries shall not be liable for damages 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: Relinquished By:				Date: 12-19-23 Time: 1414 Received By: Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:				Add'l Phone #: Add'l Fax #:											
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				CHECKED BY: (Initials) TO				Please email copy of COC and results to pm@etechenv.com.											

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc			BILL TO			ANALYSIS REQUEST																							
Project Manager: Lane Crenshaw			NO. #:			Chloride TPH (8015M) BTEX (8021B)																							
Address: 2617 West Marland			Company: Newbourn																										
City: Hobbs State: NM Zip: 88240			Attn: Jeff Brown																										
Phone #: (575) 264-9884 Fax #:			Address: 11																										
Project #: 19452 Project Owner: Newbourn			City: Hobbs																										
Project Name: Hoss SWD #001 H			State: NM Zip:																										
Project Location: Rural eddy			Phone #:																										
Sampler Name: Dominick Casarez			Fax #:																										
FOR LAB USE ONLY																													
Lab I.D.			Sample I.D.			MATRIX			PRESERV.			SAMPLING																	
H236748																													
21 FL 71 @ 6"			C 1									12-10																	
22 FL 72 @ 6"																													
23 FL 73 @ 6"																													
24 FL 74 @ 6"																													
25 FL 75 @ 6"																													
26 FL 76 @ 6"																													
27 FL 77 @ 6"																													
28 FL 78 @ 6"																													
29 FL 79 @ 6"																													
30 FL 80 @ 6"																													
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. No claims, including those for negligence and any other cause whatsoever shall be deemed waived by less made in writing and received by Cardinal 30 days after completion of the applicable service. Cardinal shall be liable for consequential or consequential damages, including without limitation business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																													
Relinquished By:			Date: 12-19-23			Received By:			Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No			Add'l Phone #:																	
			Time: 1414						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No			Add'l Fax #:																	
Relinquished By:			Date:			Received By:			REMARKS:																				
			Time:																										
Delivered By: (Circle One)			#140			Sample Condition			CHECKED BY:			Please email copy of COC and results to pm@etechenv.com.																	
Sampler - UPS - Bus - Other:			-8.0c			Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>			(Initials)																				
						Yes <input type="checkbox"/> No <input type="checkbox"/>																							
						Yes <input type="checkbox"/> No <input type="checkbox"/>																							



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 45 of 45

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lane 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: Mowbourn																							
City: Lovington		State: NM		Zip: 88260		Attn: Jeff Brown																					
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																							
Project #: 10452		Project Owner: Mowbourn		City: Hobbs																							
Project Name: Hoss SWD #001H				State: NM				Zip:																			
Project Location: Rural eddy				Phone #:																							
Sampler Name: Dominic Carver				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING															
								GROUNDWATER																			
								WASTEWATER																			
								SOIL																			
								SLUDGE																			
								OTHER:																			
								ACID/BASE:																			
								ICE / COOL																			
								OTHER:																			
								DATE		TIME																	
H231748				C		1						12-18		ML													
DC 31 FL 81 @ 6"																											
32 FL 82 @ 6"																											
33 FL 83 @ 6"																											
34 FL 84 @ 6"																											
35 FL 85 @ 1"																											
36 FL 86 @ 6"																											
37 FL 87 @ 6"																											
38 FL 88 @ 1"																											
39 FL 89 @ 1"																											

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Relinquished By:	Date: 12-19-23 Time: 1414	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:
Relinquished By:	Date: Time:	Received By:	Add'l Phone #: Add'l Fax #:

Delivered By: (Circle One) UPS Bus Other: -8.0E

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

CHECKED BY: (Initials) 20

Please email results to pm@etechenv.com.

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Revision 1.0

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

December 22, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: HOSS SWD #001H

Enclosed are the results of analyses for samples received by the laboratory on 12/20/23 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/20/2023	Sampling Date:	12/19/2023
Reported:	12/22/2023	Sampling Type:	Soil
Project Name:	HOSS SWD #001H	Sampling Condition:	Cool & Intact
Project Number:	19452	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FL 90 @ 6" (H236787-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2023	ND	2.40	120	2.00	3.09	
Toluene*	<0.050	0.050	12/21/2023	ND	2.25	112	2.00	2.33	
Ethylbenzene*	<0.050	0.050	12/21/2023	ND	2.30	115	2.00	3.23	
Total Xylenes*	<0.150	0.150	12/21/2023	ND	6.91	115	6.00	3.50	
Total BTX	<0.300	0.300	12/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	197	98.6	200	2.66	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	200	100	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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

Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 91 @ 6" (H236787-02)

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	12/21/2023	ND	2.40	120	2.00	3.09		
Toluene*	<0.050	0.050	12/21/2023	ND	2.25	112	2.00	2.33		
Ethylbenzene*	<0.050	0.050	12/21/2023	ND	2.30	115	2.00	3.23		
Total Xylenes*	<0.150	0.150	12/21/2023	ND	6.91	115	6.00	3.50		
Total BTEX	<0.300	0.300	12/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	197	98.6	200	2.66	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	200	100	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 92 @ 6" (H236787-03)

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	12/22/2023	ND	2.40	120	2.00	3.09	
Toluene*	<0.050	0.050	12/22/2023	ND	2.25	112	2.00	2.33	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.30	115	2.00	3.23	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.91	115	6.00	3.50	
Total BTX	<0.300	0.300	12/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	197	98.6	200	2.66	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	200	100	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 93 @ 6" (H236787-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2023	ND	2.40	120	2.00	3.09		
Toluene*	<0.050	0.050	12/22/2023	ND	2.25	112	2.00	2.33		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.30	115	2.00	3.23		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.91	115	6.00	3.50		
Total BTEX	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	197	98.6	200	2.66	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	200	100	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 94 @ 6" (H236787-05)

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	12/22/2023	ND	2.40	120	2.00	3.09	
Toluene*	<0.050	0.050	12/22/2023	ND	2.25	112	2.00	2.33	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.30	115	2.00	3.23	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.91	115	6.00	3.50	
Total BTEX	<0.300	0.300	12/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	197	98.6	200	2.66	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	200	100	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 95 @ 6" (H236787-06)

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	12/22/2023	ND	2.40	120	2.00	3.09		
Toluene*	<0.050	0.050	12/22/2023	ND	2.25	112	2.00	2.33		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.30	115	2.00	3.23		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.91	115	6.00	3.50		
Total BTEX	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	197	98.6	200	2.66	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	200	100	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 96 @ 6" (H236787-07)

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	12/22/2023	ND	2.40	120	2.00	3.09	
Toluene*	<0.050	0.050	12/22/2023	ND	2.25	112	2.00	2.33	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.30	115	2.00	3.23	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.91	115	6.00	3.50	
Total BTEX	<0.300	0.300	12/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/22/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	197	98.6	200	2.66	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	200	100	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 97 @ 6" (H236787-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2023	ND	2.40	120	2.00	3.09	
Toluene*	<0.050	0.050	12/22/2023	ND	2.25	112	2.00	2.33	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.30	115	2.00	3.23	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.91	115	6.00	3.50	
Total BTX	<0.300	0.300	12/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	191	95.5	200	0.181	
DRO >C10-C28*	<10.0	10.0	12/21/2023	ND	195	97.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	12/21/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 2 (H236787-09)

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	12/21/2023	ND	2.12	106	2.00	6.99		
Toluene*	<0.050	0.050	12/21/2023	ND	2.23	111	2.00	6.54		
Ethylbenzene*	<0.050	0.050	12/21/2023	ND	2.25	113	2.00	6.90		
Total Xylenes*	<0.150	0.150	12/21/2023	ND	6.81	114	6.00	6.19		
Total BTEX	<0.300	0.300	12/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	191	95.5	200	0.181	
DRO >C10-C28*	<10.0	10.0	12/21/2023	ND	195	97.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	12/21/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 3 (H236787-10)

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	12/21/2023	ND	2.12	106	2.00	6.99		
Toluene*	<0.050	0.050	12/21/2023	ND	2.23	111	2.00	6.54		
Ethylbenzene*	<0.050	0.050	12/21/2023	ND	2.25	113	2.00	6.90		
Total Xylenes*	<0.150	0.150	12/21/2023	ND	6.81	114	6.00	6.19		
Total BTEx	<0.300	0.300	12/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	191	95.5	200	0.181	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	195	97.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 2 (H236787-11)

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	12/21/2023	ND	2.12	106	2.00	6.99	
Toluene*	<0.050	0.050	12/21/2023	ND	2.23	111	2.00	6.54	
Ethylbenzene*	<0.050	0.050	12/21/2023	ND	2.25	113	2.00	6.90	
Total Xylenes*	<0.150	0.150	12/21/2023	ND	6.81	114	6.00	6.19	
Total BTEx	<0.300	0.300	12/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	191	95.5	200	0.181	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	195	97.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 142 @ 2' (H236787-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	6.99		
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	111	2.00	6.54		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.25	113	2.00	6.90		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.81	114	6.00	6.19		
Total BTX	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	191	95.5	200	0.181	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	195	97.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 143 @ 3' (H236787-13)

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	12/22/2023	ND	2.12	106	2.00	6.99		
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	111	2.00	6.54		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.25	113	2.00	6.90		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.81	114	6.00	6.19		
Total BTEX	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	191	95.5	200	0.181	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	195	97.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 144 @ 5' (H236787-14)

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	12/22/2023	ND	2.12	106	2.00	6.99	
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	111	2.00	6.54	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.25	113	2.00	6.90	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.81	114	6.00	6.19	
Total BTEX	<0.300	0.300	12/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	191	95.5	200	0.181	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	195	97.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 145 @ 6' (H236787-15)

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	12/22/2023	ND	2.12	106	2.00	6.99		
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	111	2.00	6.54		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.25	113	2.00	6.90		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.81	114	6.00	6.19		
Total BTEx	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	191	95.5	200	0.181	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	195	97.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 146 @ 3' (H236787-16)

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	12/22/2023	ND	2.12	106	2.00	6.99		
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	111	2.00	6.54		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.25	113	2.00	6.90		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.81	114	6.00	6.19		
Total BTEx	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	191	95.5	200	0.181	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	195	97.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 147 @ 3' (H236787-17)

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	12/22/2023	ND	2.12	106	2.00	6.99		
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	111	2.00	6.54		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.25	113	2.00	6.90		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.81	114	6.00	6.19		
Total BTEx	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	191	95.5	200	0.181	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	195	97.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 148 @ 3' (H236787-18)

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	12/22/2023	ND	2.12	106	2.00	6.99		
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	111	2.00	6.54		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.25	113	2.00	6.90		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.81	114	6.00	6.19		
Total BTEX	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	191	95.5	200	0.181	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	195	97.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 149 @ 4' (H236787-19)

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	12/22/2023	ND	2.12	106	2.00	6.99	
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	111	2.00	6.54	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.25	113	2.00	6.90	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.81	114	6.00	6.19	
Total BTEX	<0.300	0.300	12/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/22/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	191	95.5	200	0.181	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	195	97.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2023
 Reported: 12/22/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 150 @ 3' (H236787-20)

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	12/22/2023	ND	2.12	106	2.00	6.99		
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	111	2.00	6.54		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.25	113	2.00	6.90		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.81	114	6.00	6.19		
Total BTEX	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	12/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	191	95.5	200	0.181	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	195	97.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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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 "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 23 of 24

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST			
Project Manager: Lane Crenshaw				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>			
Address: P.O. Box 301				Company: Menbourn							
City: Lovington		State: NM Zip: 88260		Attn: Jeff Broom							
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:							
Project #: 19452		Project Owner: Menbourn		City: Hobbs							
Project Name: Hoss SWD #001		State: NM Zip:		Phone #:							
Project Location: Rural eddy				Fax #:							
Sampler Name: Dominic Casarez											
FOR LAB USE ONLY											
Lab I.D.		Sample I.D.		MATRIX		PRESERV.		SAMPLING			
H236787											
DC 1 FL 90 @ 6"		C 1		GROUNDWATER		ACID/BASE:		DATE		TIME	
2 FL 91 @ 6"				WASTEWATER		ICE / COOL					
3 FL 92 @ 6"				SOIL		OTHER :					
4 FL 93 @ 6"				OIL		OTHER :					
5 FL 94 @ 6"				SLUDGE							
6 FL 95 @ 6"											
7 FL 96 @ 6"											
8 FL 97 @ 6"											
9 WW2											
10 WW3											
<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: [Signature]				Date: 12-20-23				Received By: [Signature]			
Time: 1435								Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No			
								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Relinquished By:				Date:				Add'l Phone #:			
Time:				Received By:				Add'l Fax #:			
								REMARKS:			
Delivered By: (Circle One)				Sample Condition				CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other: -9.4c				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				[Signature]			
				Yes <input type="checkbox"/> No <input type="checkbox"/>							
				Yes <input type="checkbox"/> No <input type="checkbox"/>							

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



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: <u>Lane 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>Melbourn</u>																	
City: Lovington State: NM Zip: 88260				Attn: <u>Jeff Broom</u>																	
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																	
Project #: <u>19452</u> Project Owner: <u>Melbourn</u>				City: <u>Hobbs</u>																	
Project Name: <u>Hoss SWD #0014</u>				State: <u>NM</u> Zip:																	
Project Location: <u>Rural Eddy</u>				Phone #:																	
Sampler Name: <u>Dominic Casarez</u>				Fax #:																	
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME								
<u>#236787</u>																					
<u>PL 11 NW2</u>		<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>		<u>12-19</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>					
<u>12 PL 142 @ 2'</u>																					
<u>13 PL 143 @ 3'</u>																					
<u>14 PL 144 @ 5'</u>																					
<u>15 PL 145 @ 6'</u>																					
<u>16 PL 146 @ 3'</u>																					
<u>17 PL 147 @ 3'</u>																					
<u>18 PL 148 @ 3'</u>																					
<u>19 PL 149 @ 4'</u>																					
<u>20 PL 150 @ 3'</u>																					
<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>[Signature]</u>				Date: <u>12-20-23</u>		Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:							
				Time: <u>1435</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:							
Relinquished By:				Date:		Received By:				REMARKS:											
				Time:						Please email results to pm@etechenv.com.											
Delivered By: (Circle One)																					
Sampler - UPS - Bus - Other: <u>-9.62</u>				#140		Sample Condition				CHECKED BY: (Initials)											
						Cool Intact				<u>yo.</u>											
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
						<input type="checkbox"/> No <input type="checkbox"/> No															

FORM-006
Revision 1.0

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



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

December 28, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: HOSS SWD #001H

Enclosed are the results of analyses for samples received by the laboratory on 12/21/23 14:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 3 (H236808-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.46	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.28	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.23	112	2.00	7.83	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.74	112	6.00	7.83	
Total BTX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	207	103	200	0.951	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.0	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 2 (H236808-02)

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	12/27/2023	ND	2.26	113	2.00	8.46		
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.28		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.23	112	2.00	7.83		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.74	112	6.00	7.83		
Total BTEx	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	12/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	207	103	200	0.951	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.0	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 3 (H236808-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.46		
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.28		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.23	112	2.00	7.83		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.74	112	6.00	7.83		
Total BTEx	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	12/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	207	103	200	0.951	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.0	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 4 (H236808-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.46		
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.28		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.23	112	2.00	7.83		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.74	112	6.00	7.83		
Total BTEx	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	12/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	207	103	200	0.951	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.0	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 5 (H236808-05)

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	12/27/2023	ND	2.26	113	2.00	8.46	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.28	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.23	112	2.00	7.83	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.74	112	6.00	7.83	
Total BTEx	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	207	103	200	0.951	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.0	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 141 @ 4' (H236808-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.46	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.28	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.23	112	2.00	7.83	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.74	112	6.00	7.83	
Total BTX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/28/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	207	103	200	0.951	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.0	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
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 Fax To:

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 140 @ 3' (H236808-07)

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	12/27/2023	ND	2.26	113	2.00	8.46	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.28	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.23	112	2.00	7.83	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.74	112	6.00	7.83	
Total BTX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	207	103	200	0.951	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.0	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
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 Fax To:

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 139 @ 3' (H236808-08)

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	12/27/2023	ND	2.26	113	2.00	8.46	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.28	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.23	112	2.00	7.83	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.74	112	6.00	7.83	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/28/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	207	103	200	0.951	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.0	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
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 HOBBS NM, 88240
 Fax To:

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 138 @ 1' (H236808-09)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.46	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.28	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.23	112	2.00	7.83	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.74	112	6.00	7.83	
Total BTX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	209	104	200	1.97	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.1	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.5 % 49.1-148

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Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 137 @ 3' (H236808-10)

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	12/27/2023	ND	2.26	113	2.00	8.46		
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.28		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.23	112	2.00	7.83		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.74	112	6.00	7.83		
Total BTEX	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	12/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	209	104	200	1.97	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.1	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 136 @ 3' (H236808-11)

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	12/27/2023	ND	2.26	113	2.00	8.46	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.28	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.23	112	2.00	7.83	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.74	112	6.00	7.83	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	12/28/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	209	104	200	1.97	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.1	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 135 @ 2' (H236808-12)

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	12/27/2023	ND	2.26	113	2.00	8.46	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.28	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.23	112	2.00	7.83	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.74	112	6.00	7.83	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	209	104	200	1.97	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.1	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 106 @ 1' (H236808-13)

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	12/27/2023	ND	2.26	113	2.00	8.46	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	8.28	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.23	112	2.00	7.83	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.74	112	6.00	7.83	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	12/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	209	104	200	1.97	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.1	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 105 @ 1' (H236808-14)

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	12/27/2023	ND	2.29	114	2.00	6.22	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	4.18	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.37	119	2.00	3.55	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	7.08	118	6.00	2.90	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	12/28/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	209	104	200	1.97	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.1	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 104 @ 2' (H236808-15)

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	12/27/2023	ND	2.29	114	2.00	6.22	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	4.18	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.37	119	2.00	3.55	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	7.08	118	6.00	2.90	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	209	104	200	1.97	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.1	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 63.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 54.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 103 @ 2' (H236808-16)

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	12/27/2023	ND	2.29	114	2.00	6.22		
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	4.18		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.37	119	2.00	3.55		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	7.08	118	6.00	2.90		
Total BTEX	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	209	104	200	1.97	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.1	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 102 @ 2' (H236808-17)

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	12/27/2023	ND	2.29	114	2.00	6.22	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	4.18	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.37	119	2.00	3.55	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	7.08	118	6.00	2.90	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	12/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	209	104	200	1.97	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.1	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 101 @ 2' (H236808-18)

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	12/27/2023	ND	2.29	114	2.00	6.22	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	4.18	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.37	119	2.00	3.55	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	7.08	118	6.00	2.90	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/28/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	209	104	200	1.97	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.1	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 100 @ 2' (H236808-19)

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	12/27/2023	ND	2.29	114	2.00	6.22	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	4.18	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.37	119	2.00	3.55	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	7.08	118	6.00	2.90	
Total BTEx	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/28/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	209	104	200	1.97	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.1	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 99 @ 2' (H236808-20)

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	12/27/2023	ND	2.29	114	2.00	6.22	
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	4.18	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.37	119	2.00	3.55	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	7.08	118	6.00	2.90	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	12/28/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	209	104	200	1.97	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.1	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2023
 Reported: 12/28/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 98 @ 3' (H236808-21)

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	12/27/2023	ND	2.29	114	2.00	6.22		
Toluene*	<0.050	0.050	12/27/2023	ND	2.26	113	2.00	4.18		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.37	119	2.00	3.55		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	7.08	118	6.00	2.90		
Total BTEX	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2023	ND	209	104	200	1.97	
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	188	94.1	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 24 of 26

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>Lane 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>Mewbourn</u>																							
City: Lovington State: NM Zip: 88260				Attn: <u>Jeff Broom</u>																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																							
Project #: <u>19452</u> Project Owner: <u>Mewbourn</u>				City: <u>Hobbs</u>																							
Project Name: <u>Hoss SWP #0014</u>				State: <u>NM</u> Zip:																							
Project Location: <u>Rural eddy</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		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
<u>4236808</u>				<u>C-1</u>																				<u>12-20</u>			
<u>DC 1</u>		<u>NW3</u>																									
<u>2</u>		<u>EW2</u>																									
<u>3</u>		<u>EW3</u>																									
<u>4</u>		<u>EW4</u>																									
<u>5</u>		<u>EW5</u>																									
<u>6</u>		<u>FL 141 @ 4'</u>																									
<u>7</u>		<u>FL 140 @ 3'</u>																									
<u>8</u>		<u>FL 139 @ 3'</u>																									
<u>9</u>		<u>FL 138 @ 1'</u>																									
<u>10</u>		<u>FL 137 @ 3'</u>																									
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Relinquished By: <u>[Signature]</u>				Date: <u>12-21-23</u>				Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:											
				Time: <u>1449</u>								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:											
Relinquished By:				Date:				Received By:				REMARKS:															
				Time:																							
Delivered By: (Circle One) <u>-11.0</u>				Sample Condition				CHECKED BY:																			
Sampler - UPS - Bus - Other: <u>#140</u>				Cool Intact				(Initials)																			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<u>SR</u>																			
				<input type="checkbox"/> No <input type="checkbox"/> No																							

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Revision 1.0

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Lane 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>Melbourn</u>															
City: Lovington		State: NM		Zip: 88260		Attn: <u>Jeff Brown</u>													
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:															
Project #: <u>19452</u>		Project Owner: <u>Melbourn</u>		City: <u>Hobbs</u>															
Project Name: <u>Hoss SWD #001H</u>				State: <u>NM</u>		Zip:													
Project Location: <u>Rural eddy</u>				Phone #:															
Sampler Name: <u>Dominic Casarez</u>				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							
<u>H236808</u>				<u>C1</u>															
<u>DC 11</u>		<u>FL 136 @ 3'</u>		<u>11-20</u>															
<u>12</u>		<u>FL 135 @ 2'</u>																	
<u>13</u>		<u>FL 106 @ 1'</u>																	
<u>14</u>		<u>FL 105 @ 1'</u>																	
<u>15</u>		<u>FL 104 @ 2'</u>																	
<u>16</u>		<u>FL 103 @ 2'</u>																	
<u>17</u>		<u>FL 102 @ 2'</u>																	
<u>18</u>		<u>FL 101 @ 2'</u>																	
<u>19</u>		<u>FL 100 @ 2'</u>																	
<u>20</u>		<u>FL 99 @ 2'</u>																	
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Relinquished By: <u>[Signature]</u>				Date: <u>12-23-14</u>		Received By: <u>[Signature]</u>				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 #:							
Delivered By: (Circle One) <u>-11.0:</u>				Time:		Sample Condition				CHECKED BY: <u>[Signature]</u>		REMARKS:							
Sampler - UPS - Bus - Other: <u>#140</u>						Cool Intact				[Initials]		Please email results to pm@etechenv.com.							
						Yes Yes													
						No No													

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental				BILL TO				ANALYSIS REQUEST																											
Project Manager: Lance Crenshaw				P.O. #:																															
Address: 2617 W Marland Blvd				Company: <i>Mewbourne</i>																															
City: Hobbs		State: NM		Zip: 88240		Attn: <i>Jeff Brown</i>																													
Phone #: (575) 264-9884		Fax #:		Address:																															
Project #: 19452		Project Owner: Mewbourne Oil Company		City: <i>Hobbs</i>		State: <i>NM</i>																													
Project Name: Hoss SWD #001H				Zip:																															
Project Location: GPS: (32.1515588, -104.0501793)				Phone #:																															
Sampler Name: <i>Dominic Casarez</i>				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		Chloride		TPH		BTEX 8021	
<i>H236808</i>		<i>DC 21 FL 98 E 3'</i>		<i>C</i>		<i>1</i>																				<i>12-20</i>									

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Relinquished By: <i>[Signature]</i>		Date: <i>12-21</i> 40/14/2023		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <i>1449</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: Email copy of COC and results to: PM@etechnv.com			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: <i>-11.0 - #140</i>				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		<i>[Signature]</i>			

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December 29, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: HOSS SWD #001H

Enclosed are the results of analyses for samples received by the laboratory on 12/22/23 14:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2023	Sampling Date:	12/21/2023
Reported:	12/29/2023	Sampling Type:	Soil
Project Name:	HOSS SWD #001H	Sampling Condition:	Cool & Intact
Project Number:	19452	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: NW 4 (H236831-01)

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	12/27/2023	ND	2.23	111	2.00	0.305		
Toluene*	<0.050	0.050	12/27/2023	ND	2.20	110	2.00	0.0704		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.21	111	2.00	0.403		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.46	108	6.00	0.610		
Total BTEX	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/28/2023	ND	384	96.0	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2023	ND	243	122	200	0.529	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	241	120	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/29/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: NW 5 (H236831-02)

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	12/27/2023	ND	2.23	111	2.00	0.305	
Toluene*	<0.050	0.050	12/27/2023	ND	2.20	110	2.00	0.0704	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.21	111	2.00	0.403	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.46	108	6.00	0.610	
Total BTEx	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/28/2023	ND	384	96.0	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2023	ND	243	122	200	0.529	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	241	120	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/29/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: WW 4 (H236831-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2023	ND	2.23	111	2.00	0.305	
Toluene*	<0.050	0.050	12/27/2023	ND	2.20	110	2.00	0.0704	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.21	111	2.00	0.403	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.46	108	6.00	0.610	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/28/2023	ND	384	96.0	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2023	ND	243	122	200	0.529	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	241	120	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/29/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: WW 5 (H236831-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2023	ND	2.23	111	2.00	0.305	
Toluene*	<0.050	0.050	12/27/2023	ND	2.20	110	2.00	0.0704	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.21	111	2.00	0.403	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.46	108	6.00	0.610	
Total BTEx	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/28/2023	ND	384	96.0	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2023	ND	243	122	200	0.529	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	241	120	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/29/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: SW 1B (H236831-05)

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	12/27/2023	ND	2.23	111	2.00	0.305	
Toluene*	<0.050	0.050	12/27/2023	ND	2.20	110	2.00	0.0704	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.21	111	2.00	0.403	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.46	108	6.00	0.610	
Total BTEx	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	12/28/2023	ND	384	96.0	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2023	ND	243	122	200	0.529	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	241	120	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/29/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: WW 1B (H236831-06)

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	12/27/2023	ND	2.23	111	2.00	0.305	
Toluene*	<0.050	0.050	12/27/2023	ND	2.20	110	2.00	0.0704	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.21	111	2.00	0.403	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.46	108	6.00	0.610	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	12/28/2023	ND	384	96.0	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2023	ND	243	122	200	0.529	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	241	120	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					

Surrogate: 1-Chlorooctane 71.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/29/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 134 @ 3 (H236831-07)

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	12/27/2023	ND	2.23	111	2.00	0.305	
Toluene*	<0.050	0.050	12/27/2023	ND	2.20	110	2.00	0.0704	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.21	111	2.00	0.403	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.46	108	6.00	0.610	
Total BTEx	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/28/2023	ND	384	96.0	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2023	ND	243	122	200	0.529	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	241	120	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/29/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 110 @ 1 (H236831-08)

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	12/27/2023	ND	2.23	111	2.00	0.305	
Toluene*	<0.050	0.050	12/27/2023	ND	2.20	110	2.00	0.0704	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.21	111	2.00	0.403	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.46	108	6.00	0.610	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/28/2023	ND	384	96.0	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2023	ND	243	122	200	0.529	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	241	120	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/29/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 111 @ 1 (H236831-09)

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	12/27/2023	ND	2.23	111	2.00	0.305		
Toluene*	<0.050	0.050	12/27/2023	ND	2.20	110	2.00	0.0704		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.21	111	2.00	0.403		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.46	108	6.00	0.610		
Total BTEX	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/28/2023	ND	432	108	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	12/28/2023	ND	243	122	200	0.529	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	241	120	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/29/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 112 @ 1 (H236831-10)

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	12/27/2023	ND	2.23	111	2.00	0.305	
Toluene*	<0.050	0.050	12/27/2023	ND	2.20	110	2.00	0.0704	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.21	111	2.00	0.403	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.46	108	6.00	0.610	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/28/2023	ND	432	108	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	12/28/2023	ND	243	122	200	0.529	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	241	120	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/29/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 107 @ 2 (H236831-11)

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	12/27/2023	ND	2.23	111	2.00	0.305		
Toluene*	<0.050	0.050	12/27/2023	ND	2.20	110	2.00	0.0704		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.21	111	2.00	0.403		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.46	108	6.00	0.610		
Total BTEX	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	12/28/2023	ND	432	108	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	12/28/2023	ND	243	122	200	0.529	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	241	120	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/29/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 108 @ 2 (H236831-12)

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	12/27/2023	ND	2.23	111	2.00	0.305		
Toluene*	<0.050	0.050	12/27/2023	ND	2.20	110	2.00	0.0704		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.21	111	2.00	0.403		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.46	108	6.00	0.610		
Total BTEX	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	12/28/2023	ND	432	108	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	12/28/2023	ND	243	122	200	0.529	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	241	120	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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

Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/29/2023
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 109 @ 2 (H236831-13)

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	12/27/2023	ND	2.23	111	2.00	0.305	
Toluene*	<0.050	0.050	12/27/2023	ND	2.20	110	2.00	0.0704	
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.21	111	2.00	0.403	
Total Xylenes*	<0.150	0.150	12/27/2023	ND	6.46	108	6.00	0.610	
Total BTEX	<0.300	0.300	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/28/2023	ND	432	108	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	12/28/2023	ND	243	122	200	0.529	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	241	120	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental				BILL TO				ANALYSIS REQUEST														
Project Manager: Lance Crenshaw				P.O. #:																		
Address: 2617 W Marland Blvd				Company: <i>Mewbourn</i>																		
City: Hobbs		State: NM		Zip: 88240		Attn: <i>Jeff Broom</i>																
Phone #: (575) 264-9884		Fax #:		Address:																		
Project #: 19452		Project Owner: Mewbourne Oil Company		City: <i>Hobbs</i>		State: <i>NM</i> Zip:																
Project Name: Hoss SWD #001H				Phone #:																		
Project Location: GPS:(32.1515588, -104.0501793)				Fax #:																		
Sampler Name: <i>Dominic Casarez</i>																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	GRAB OR (COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH	BTX 8021						
<i>H236831</i>																						
<i>PL 1</i>	<i>NW4</i>	<i>1</i>										<i>12-21</i>										
<i>2</i>	<i>NW5</i>																					
<i>3</i>	<i>WW4</i>																					
<i>4</i>	<i>WW5</i>																					
<i>5</i>	<i>SW1B</i>																					
<i>6</i>	<i>WW1B</i>																					
<i>7</i>	<i>FL134@3</i>																					
<i>8</i>	<i>FL10@1</i>																					
<i>9</i>	<i>FL11@1</i>																					
<i>10</i>	<i>FL12@1</i>																					

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Relinquished By: <i>[Signature]</i>	Date: <i>12/21/2023</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>14:33</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email copy of COC and results to: PM@etechenv.com	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other: <i>-4.2</i>	Coor Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>JC</i>		

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
FORM-006 R 2.0

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

Page 17 of 17

Released to Imaging: 5/15/2024 10:34:45 AM



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

January 03, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: HOSS SWD #001H

Enclosed are the results of analyses for samples received by the laboratory on 12/29/23 14:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/29/2023
 Reported: 01/03/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 105 @ 2' (H236869-01)

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	01/02/2024	ND	1.92	95.9	2.00	8.29	
Toluene*	<0.050	0.050	01/02/2024	ND	1.87	93.4	2.00	8.89	
Ethylbenzene*	<0.050	0.050	01/02/2024	ND	1.85	92.7	2.00	8.52	
Total Xylenes*	<0.150	0.150	01/02/2024	ND	5.40	89.9	6.00	8.66	
Total BTX	<0.300	0.300	01/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/02/2024	ND	448	112	400	3.64	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2023	ND	232	116	200	3.55	
DRO >C10-C28*	<10.0	10.0	12/29/2023	ND	222	111	200	6.98	
EXT DRO >C28-C36	<10.0	10.0	12/29/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/29/2023
 Reported: 01/03/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 106 @ 2' (H236869-02)

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	01/02/2024	ND	1.92	95.9	2.00	8.29	
Toluene*	<0.050	0.050	01/02/2024	ND	1.87	93.4	2.00	8.89	
Ethylbenzene*	<0.050	0.050	01/02/2024	ND	1.85	92.7	2.00	8.52	
Total Xylenes*	<0.150	0.150	01/02/2024	ND	5.40	89.9	6.00	8.66	
Total BTEX	<0.300	0.300	01/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/02/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2023	ND	232	116	200	3.55	
DRO >C10-C28*	<10.0	10.0	12/30/2023	ND	222	111	200	6.98	
EXT DRO >C28-C36	<10.0	10.0	12/30/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/29/2023
 Reported: 01/03/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 113 @ 4' (H236869-03)

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	01/02/2024	ND	1.92	95.9	2.00	8.29		
Toluene*	<0.050	0.050	01/02/2024	ND	1.87	93.4	2.00	8.89		
Ethylbenzene*	<0.050	0.050	01/02/2024	ND	1.85	92.7	2.00	8.52		
Total Xylenes*	<0.150	0.150	01/02/2024	ND	5.40	89.9	6.00	8.66		
Total BTEX	<0.300	0.300	01/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/02/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2023	ND	232	116	200	3.55	
DRO >C10-C28*	<10.0	10.0	12/30/2023	ND	222	111	200	6.98	
EXT DRO >C28-C36	<10.0	10.0	12/30/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/29/2023
 Reported: 01/03/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 12/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 115 @ 4' (H236869-04)

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	01/02/2024	ND	1.92	95.9	2.00	8.29		
Toluene*	<0.050	0.050	01/02/2024	ND	1.87	93.4	2.00	8.89		
Ethylbenzene*	<0.050	0.050	01/02/2024	ND	1.85	92.7	2.00	8.52		
Total Xylenes*	<0.150	0.150	01/02/2024	ND	5.40	89.9	6.00	8.66		
Total BTEX	<0.300	0.300	01/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/02/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2023	ND	232	116	200	3.55	
DRO >C10-C28*	<10.0	10.0	12/30/2023	ND	222	111	200	6.98	
EXT DRO >C28-C36	<10.0	10.0	12/30/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
FORM-006 R 2.0



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

January 10, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: HOSS SWD #001H

Enclosed are the results of analyses for samples received by the laboratory on 01/05/24 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more 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: HOSS SWD #001H
Project Number: 19452
Project Manager: JOEL LOWRY
Fax To:

Reported:
10-Jan-24 11:24

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL - 119 @ 5'	H240054-01	Soil	04-Jan-24 00:00	05-Jan-24 14:55
FL - 120 @ 5'	H240054-02	Soil	04-Jan-24 00:00	05-Jan-24 14:55
FL - 121 @ 2'	H240054-03	Soil	04-Jan-24 00:00	05-Jan-24 14:55
FL - 122 @ 2'	H240054-04	Soil	04-Jan-24 00:00	05-Jan-24 14:55
FL - 114 @ 4'	H240054-05	Soil	04-Jan-24 00:00	05-Jan-24 14:55
FL - 146 @ 5'	H240054-06	Soil	04-Jan-24 00:00	05-Jan-24 14:55

01/10/24 - Client changed the sample IDs of 01 - 04 (see COC). This is the revised report and will replace the one sent earlier today, 01/10/24.

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: HOSS SWD #001H
Project Number: 19452
Project Manager: JOEL LOWRY
Fax To:

Reported:
10-Jan-24 11:24

FL - 119 @ 5'
H240054-01 (Soil)

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

Chloride	480		16.0	mg/kg	4	4010804	HM	08-Jan-24	4500-Cl-B	QR-03
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4010520	JH	05-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134 4010520 JH 05-Jan-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B	

Surrogate: 1-Chlorooctane 109 % 48.2-134 4010522 MS 05-Jan-24 8015B

Surrogate: 1-Chlorooctadecane 121 % 49.1-148 4010522 MS 05-Jan-24 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: HOSS SWD #001H
Project Number: 19452
Project Manager: JOEL LOWRY
Fax To:

Reported:
10-Jan-24 11:24

FL - 120 @ 5'**H240054-02 (Soil)**

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

Chloride	384		16.0	mg/kg	4	4010804	HM	08-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4010520	JH	05-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	97.4 %	71.5-134	4010520	JH	05-Jan-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B

Surrogate: 1-Chlorooctane	129 %	48.2-134	4010522	MS	05-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane	141 %	49.1-148	4010522	MS	05-Jan-24	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: HOSS SWD #001H
Project Number: 19452
Project Manager: JOEL LOWRY
Fax To:

Reported:
10-Jan-24 11:24

FL - 121 @ 2'**H240054-03 (Soil)**

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

Chloride	176		16.0	mg/kg	4	4010804	HM	08-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4010520	JH	05-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	97.3 %	71.5-134	4010520	JH	05-Jan-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B

Surrogate: 1-Chlorooctane	104 %	48.2-134	4010522	MS	05-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane	113 %	49.1-148	4010522	MS	05-Jan-24	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: HOSS SWD #001H
Project Number: 19452
Project Manager: JOEL LOWRY
Fax To:

Reported:
10-Jan-24 11:24

FL - 122 @ 2'**H240054-04 (Soil)**

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

Chloride	160		16.0	mg/kg	4	4010804	HM	08-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4010520	JH	05-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.9 %		71.5-134	4010520	JH	05-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			105 %		48.2-134	4010522	MS	05-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			112 %		49.1-148	4010522	MS	05-Jan-24	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: HOSS SWD #001H
Project Number: 19452
Project Manager: JOEL LOWRY
Fax To:

Reported:
10-Jan-24 11:24

FL - 114 @ 4'**H240054-05 (Soil)**

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

Chloride	480		16.0	mg/kg	4	4010804	HM	08-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4010520	JH	05-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.5 %		71.5-134	4010520	JH	05-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B	

Surrogate: 1-Chlorooctane			109 %		48.2-134	4010522	MS	05-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			117 %		49.1-148	4010522	MS	05-Jan-24	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: HOSS SWD #001H
Project Number: 19452
Project Manager: JOEL LOWRY
Fax To:

Reported:
10-Jan-24 11:24

FL - 146 @ 5'**H240054-06 (Soil)**

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

Chloride	240		16.0	mg/kg	4	4010804	HM	08-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4010520	JH	05-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4010520	JH	05-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	97.3 %	71.5-134	4010520	JH	05-Jan-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4010522	MS	05-Jan-24	8015B

Surrogate: 1-Chlorooctane	107 %	48.2-134	4010522	MS	05-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane	117 %	49.1-148	4010522	MS	05-Jan-24	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: HOSS SWD #001H
Project Number: 19452
Project Manager: JOEL LOWRY
Fax To:

Reported:
10-Jan-24 11:24

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4010804 - 1:4 DI Water									
Blank (4010804-BLK1)					Prepared & Analyzed: 08-Jan-24				
Chloride	ND	16.0	mg/kg						
LCS (4010804-BS1)					Prepared & Analyzed: 08-Jan-24				
Chloride	448	16.0	mg/kg	400		112	80-120		
LCS Dup (4010804-BSD1)					Prepared & Analyzed: 08-Jan-24				
Chloride	448	16.0	mg/kg	400		112	80-120	0.00	20

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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: HOSS SWD #001H
Project Number: 19452
Project Manager: JOEL LOWRY
Fax To:

Reported:
10-Jan-24 11:24

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 4010520 - Volatiles**Blank (4010520-BLK1)**

Prepared & Analyzed: 05-Jan-24

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		97.4	71.5-134			

LCS (4010520-BS1)

Prepared & Analyzed: 05-Jan-24

Benzene	2.21	0.050	mg/kg	2.00		110	82.8-130			
Toluene	2.18	0.050	mg/kg	2.00		109	86-128			
Ethylbenzene	2.17	0.050	mg/kg	2.00		108	85.9-128			
m,p-Xylene	4.21	0.100	mg/kg	4.00		105	89-129			
o-Xylene	2.11	0.050	mg/kg	2.00		105	86.1-125			
Total Xylenes	6.32	0.150	mg/kg	6.00		105	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0486		mg/kg	0.0500		97.3	71.5-134			

LCS Dup (4010520-BSD1)

Prepared & Analyzed: 05-Jan-24

Benzene	2.18	0.050	mg/kg	2.00		109	82.8-130	1.56	15.8	
Toluene	2.15	0.050	mg/kg	2.00		107	86-128	1.31	15.9	
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	85.9-128	1.25	16	
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89-129	1.34	16.2	
o-Xylene	2.08	0.050	mg/kg	2.00		104	86.1-125	1.24	16.7	
Total Xylenes	6.24	0.150	mg/kg	6.00		104	88.2-128	1.31	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0486		mg/kg	0.0500		97.2	71.5-134			

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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: HOSS SWD #001H
Project Number: 19452
Project Manager: JOEL LOWRY
Fax To:

Reported:
10-Jan-24 11:24

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 4010522 - General Prep - Organics**Blank (4010522-BLK1)**

Prepared & Analyzed: 05-Jan-24

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	61.6		mg/kg	50.0		123	48.2-134			
Surrogate: 1-Chlorooctadecane	68.8		mg/kg	50.0		138	49.1-148			

LCS (4010522-BS1)

Prepared & Analyzed: 05-Jan-24

GRO C6-C10	167	10.0	mg/kg	200		83.7	66.4-123			
DRO >C10-C28	181	10.0	mg/kg	200		90.5	66.5-118			
Total TPH C6-C28	348	10.0	mg/kg	400		87.1	77.6-123			
Surrogate: 1-Chlorooctane	53.0		mg/kg	50.0		106	48.2-134			
Surrogate: 1-Chlorooctadecane	55.8		mg/kg	50.0		112	49.1-148			

LCS Dup (4010522-BSD1)

Prepared & Analyzed: 05-Jan-24

GRO C6-C10	167	10.0	mg/kg	200		83.4	66.4-123	0.316	17.7	
DRO >C10-C28	173	10.0	mg/kg	200		86.7	66.5-118	4.32	21	
Total TPH C6-C28	340	10.0	mg/kg	400		85.0	77.6-123	2.38	18.5	
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	48.2-134			
Surrogate: 1-Chlorooctadecane	54.8		mg/kg	50.0		110	49.1-148			

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

January 09, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: HOSS SWD #001H

Enclosed are the results of analyses for samples received by the laboratory on 01/08/24 14:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/08/2024
 Reported: 01/09/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 (H240068-01)

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	01/08/2024	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	01/08/2024	ND	2.05	102	2.00	0.803	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.03	101	2.00	1.08	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.03	101	6.00	1.21	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/09/2024	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	01/08/2024	ND	222	111	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	218	109	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/08/2024
 Reported: 01/09/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW - 6 (H240068-02)

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	01/08/2024	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	01/08/2024	ND	2.05	102	2.00	0.803	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.03	101	2.00	1.08	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.03	101	6.00	1.21	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/09/2024	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	01/08/2024	ND	222	111	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	218	109	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/08/2024
 Reported: 01/09/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL - 123 @ 3' (H240068-03)

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	01/08/2024	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	01/08/2024	ND	2.05	102	2.00	0.803	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.03	101	2.00	1.08	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.03	101	6.00	1.21	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/09/2024	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	01/08/2024	ND	222	111	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	218	109	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/08/2024
 Reported: 01/09/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL - 124 @ 3' (H240068-04)

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	01/08/2024	ND	2.02	101	2.00	1.39		
Toluene*	<0.050	0.050	01/08/2024	ND	2.05	102	2.00	0.803		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.03	101	2.00	1.08		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.03	101	6.00	1.21		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/09/2024	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	01/08/2024	ND	222	111	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	218	109	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/08/2024
 Reported: 01/09/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL - 65 @ 1' (H240068-05)

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	01/08/2024	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	01/08/2024	ND	2.05	102	2.00	0.803	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.03	101	2.00	1.08	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.03	101	6.00	1.21	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/09/2024	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	01/08/2024	ND	222	111	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	218	109	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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

[illegible]



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

January 11, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: HOSS SWD #001H

Enclosed are the results of analyses for samples received by the laboratory on 01/10/24 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2024
 Reported: 01/11/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 125 @ 6" (H240107-01)

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	01/10/2024	ND	2.36	118	2.00	1.61	
Toluene*	<0.050	0.050	01/10/2024	ND	2.37	119	2.00	3.78	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.48	124	2.00	5.63	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	7.52	125	6.00	6.34	
Total BTX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/11/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	227	114	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	226	113	200	7.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2024
 Reported: 01/11/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 126 @ 6" (H240107-02)

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	01/10/2024	ND	2.36	118	2.00	1.61	
Toluene*	<0.050	0.050	01/10/2024	ND	2.37	119	2.00	3.78	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.48	124	2.00	5.63	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	7.52	125	6.00	6.34	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/11/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	227	114	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	226	113	200	7.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2024
 Reported: 01/11/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NW - 6 (H240107-03)

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	01/10/2024	ND	2.36	118	2.00	1.61		
Toluene*	<0.050	0.050	01/10/2024	ND	2.37	119	2.00	3.78		
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.48	124	2.00	5.63		
Total Xylenes*	<0.150	0.150	01/10/2024	ND	7.52	125	6.00	6.34		
Total BTEX	<0.300	0.300	01/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/11/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	227	114	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	226	113	200	7.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2024
 Reported: 01/11/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NW - 7 (H240107-04)

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	01/10/2024	ND	2.36	118	2.00	1.61	
Toluene*	<0.050	0.050	01/10/2024	ND	2.37	119	2.00	3.78	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.48	124	2.00	5.63	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	7.52	125	6.00	6.34	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/11/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	227	114	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	226	113	200	7.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2024
 Reported: 01/11/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NW - 8 (H240107-05)

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	01/10/2024	ND	2.36	118	2.00	1.61	
Toluene*	<0.050	0.050	01/10/2024	ND	2.37	119	2.00	3.78	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.48	124	2.00	5.63	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	7.52	125	6.00	6.34	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/11/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	227	114	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	226	113	200	7.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2024
 Reported: 01/11/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW - 7 (H240107-06)

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	01/10/2024	ND	2.36	118	2.00	1.61	
Toluene*	<0.050	0.050	01/10/2024	ND	2.37	119	2.00	3.78	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.48	124	2.00	5.63	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	7.52	125	6.00	6.34	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/11/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	227	114	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	226	113	200	7.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2024
 Reported: 01/11/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW - 8 (H240107-07)

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	01/10/2024	ND	2.36	118	2.00	1.61	
Toluene*	<0.050	0.050	01/10/2024	ND	2.37	119	2.00	3.78	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.48	124	2.00	5.63	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	7.52	125	6.00	6.34	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/11/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	227	114	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	226	113	200	7.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2024
 Reported: 01/11/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 4 (H240107-08)

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	01/10/2024	ND	2.36	118	2.00	1.61	
Toluene*	<0.050	0.050	01/10/2024	ND	2.37	119	2.00	3.78	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.48	124	2.00	5.63	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	7.52	125	6.00	6.34	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/11/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	227	114	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	226	113	200	7.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2024
 Reported: 01/11/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW - 6 (H240107-09)

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	01/10/2024	ND	2.36	118	2.00	1.61		
Toluene*	<0.050	0.050	01/10/2024	ND	2.37	119	2.00	3.78		
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.48	124	2.00	5.63		
Total Xylenes*	<0.150	0.150	01/10/2024	ND	7.52	125	6.00	6.34		
Total BTEX	<0.300	0.300	01/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/11/2024	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	227	114	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	226	113	200	7.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2024
 Reported: 01/11/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW - 7 (H240107-10)

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	01/10/2024	ND	2.36	118	2.00	1.61		
Toluene*	<0.050	0.050	01/10/2024	ND	2.37	119	2.00	3.78		
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.48	124	2.00	5.63		
Total Xylenes*	<0.150	0.150	01/10/2024	ND	7.52	125	6.00	6.34		
Total BTEX	<0.300	0.300	01/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/11/2024	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	01/10/2024	ND	227	114	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	226	113	200	7.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2024
 Reported: 01/11/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW - 8 (H240107-11)

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	01/10/2024	ND	2.36	118	2.00	1.61	
Toluene*	<0.050	0.050	01/10/2024	ND	2.37	119	2.00	3.78	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.48	124	2.00	5.63	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	7.52	125	6.00	6.34	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/11/2024	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	01/11/2024	ND	227	114	200	10.5	
DRO >C10-C28*	13.2	10.0	01/11/2024	ND	226	113	200	7.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2024	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2024
 Reported: 01/11/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW - 9 (H240107-12)

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	01/10/2024	ND	2.36	118	2.00	1.61	
Toluene*	<0.050	0.050	01/10/2024	ND	2.37	119	2.00	3.78	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.48	124	2.00	5.63	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	7.52	125	6.00	6.34	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/11/2024	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	01/11/2024	ND	227	114	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/11/2024	ND	226	113	200	7.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2024
 Reported: 01/11/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW - 10 (H240107-13)

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	01/10/2024	ND	2.36	118	2.00	1.61		
Toluene*	<0.050	0.050	01/10/2024	ND	2.37	119	2.00	3.78		
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.48	124	2.00	5.63		
Total Xylenes*	<0.150	0.150	01/10/2024	ND	7.52	125	6.00	6.34		
Total BTEX	<0.300	0.300	01/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/11/2024	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	01/11/2024	ND	227	114	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/11/2024	ND	226	113	200	7.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

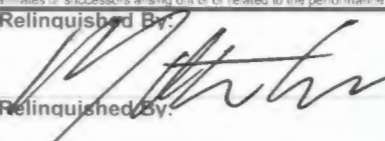

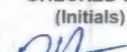
Celey D. Keene, Lab Director/Quality Manager

**• 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.				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Lance Crenshaw				P.O. #:				<div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div>																																	
Address: 2617 West Marland				Company SEE REMARKS																																					
City: Hobbs State: NM Zip: 88240				Attn:																																					
Phone #: (575) 264-9884 Fax #:				Address:																																					
Project #: 19452 Project Owner: Mewbourne				City:																																					
Project Name: Hoss SWD #001H				State: NM Zip:																																					
Project Location: 32.1515588, -104.0501793				Phone #:																																					
Sampler Name: Dominic Casarez				Fax #:																																					
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																																	
Lab I.D.		Sample I.D.		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME																	
1		FL-125 @ 6"		C 1		X										X				1/9/24				X		X		X													
2		FL-126 @ 6"		C 1		X										X				1/9/24				X		X		X													
3		NW-6		C 1		X										X				1/9/24				X		X		X													
4		NW-7		C 1		X										X				1/9/24				X		X		X													
5		NW-8		C 1		X										X				1/9/24				X		X		X													
6		EW-7		C 1		X										X				1/9/24				X		X		X													
7		EW-8		C 1		X										X				1/9/24				X		X		X													
8		SW-4		C 1		X										X				1/9/24				X		X		X													
9		WW-6		C 1		X										X				1/9/24				X		X		X													
10		WW-7		C 1		X										X				1/9/24				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: 1-10-24 Time: 14:25				Received By: 				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:				Add'l Phone #: Add'l Fax #:																									
Relinquished By:				Date:				Received By:				RUSH SAMPLES																													
Delivered By: (Circle One)				-7.10L				Sample Condition				CHECKED BY:				Bill analytical charges to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.																									
Sampler - UPS - Bus - Other:				#140				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No								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


CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 17 of 17

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 19452 Project Owner: Mewbourne Project Name: Hoss SWD #001H Project Location: 32.1515588, -104.0501793 Sampler Name: Dominic Casarez				BILL TO P.O. #: Company: SEE REMARKS Attn: Address: City: State: NM Zip: Phone #: Fax #:				ANALYSIS REQUEST											
FOR LAB USE ONLY	H240107 Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV. ACID/BASE: ICE / COOL OTHER:	SAMPLING DATE TIME	Chloride	TPH (8015M)	BTEX (8021B)										
	11 WW-8		C 1	X	X	1/9/24		X	X	X									
	12 WW-9		C 1	X	X	1/9/24		X	X	X									
	13 WW-10		C 1	X	X	1/9/24		X	X	X									

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Relinquished By: Date: 1-10-24 Time: 14:25	Received By: Date: Time:	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:
Relinquished By: Date: Time:		Received By: Date: Time:

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:
 -7.10C
 #140

Sample Condition
 Cool Intact
☐ Yes ☐ Yes
☐ No ☐ No

CHECKED BY: (Initials)

RUSH SAMPLES
 Bill analytical charges to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.
 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

January 12, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: HOSS SWD #001H

Enclosed are the results of analyses for samples received by the laboratory on 01/11/24 14:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/11/2024
 Reported: 01/12/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW - 9 (H240138-01)

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	01/12/2024	ND	2.11	105	2.00	3.24	
Toluene*	<0.050	0.050	01/12/2024	ND	2.09	105	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.09	105	2.00	3.56	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.11	102	6.00	3.56	
Total BTEX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/12/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	201	101	200	0.968	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	200	99.9	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/11/2024
 Reported: 01/12/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 5 (H240138-02)

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	01/12/2024	ND	2.11	105	2.00	3.24	
Toluene*	<0.050	0.050	01/12/2024	ND	2.09	105	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.09	105	2.00	3.56	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.11	102	6.00	3.56	
Total BTEX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/12/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	201	101	200	0.968	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	200	99.9	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 19452 Project Owner: Mewbourne Project Name: Hoss SWD #001H Project Location: 32.1515588, -104.0501793 Sampler Name: Dominic Casarez						BILL TO						ANALYSIS REQUEST																
						P.O. #: Company SEE REMARKS Attn: Address: City: State: NM Zip: Phone #: Fax #:						Chloride TPH (8015M) BTEX (8021B)																
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(GIRAB OR (C)OMP.# CONTAINERS)	MATRIX					PRESERV.	SAMPLING															
							GROUNDWATER	WASTEWATER	SOIL	OIL	SOLIDS		OTHER :	ACID/BASE													ICE / COOL	OTHER :
2	EW-9	C	1		X					X		1/10/24		X	X	X												
	SW-5	C	1		X					X		1/10/24		X	X	X												

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Relinquished By: _____ Date: 1/11/24 Time: 14:47	Received By: _____ Date: _____ Time: _____	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: _____ REMARKS: <div style="background-color: yellow; padding: 5px; font-weight: bold; margin-top: 10px;">RUSH SAMPLES</div> Bill analytical charges to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw. Please email results and copy of CoC to pm@etechenv.com
--	--	--

Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Price: \$2,400 + \$140	CHECKED BY: _____ (Initials)
--	---	-------------------------------------



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

January 15, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: HOSS SWD #001H

Enclosed are the results of analyses for samples received by the laboratory on 01/11/24 14:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/11/2024
 Reported: 01/15/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF - 1 @ 1' (H240139-01)

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	01/12/2024	ND	2.13	107	2.00	0.824		
Toluene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.05		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.14		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.18	103	6.00	1.15		
Total BTX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5280	16.0	01/12/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	182	91.0	200	1.60	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	162	81.2	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2024	Sampling Date:	01/10/2024
Reported:	01/15/2024	Sampling Type:	Soil
Project Name:	HOSS SWD #001H	Sampling Condition:	Cool & Intact
Project Number:	19452	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: DEF - 1 @ 2' (H240139-02)

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	01/12/2024	ND	2.13	107	2.00	0.824		
Toluene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.05		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.14		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.18	103	6.00	1.15		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3720	16.0	01/12/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	182	91.0	200	1.60	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	162	81.2	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2024	Sampling Date:	01/10/2024
Reported:	01/15/2024	Sampling Type:	Soil
Project Name:	HOSS SWD #001H	Sampling Condition:	Cool & Intact
Project Number:	19452	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: DEF - 1 @ 3' (H240139-03)

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	01/12/2024	ND	2.13	107	2.00	0.824		
Toluene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.05		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.14		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.18	103	6.00	1.15		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3480	16.0	01/12/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	182	91.0	200	1.60	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	162	81.2	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/11/2024
 Reported: 01/15/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF - 1 @ 4' (H240139-04)

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	01/12/2024	ND	2.13	107	2.00	0.824	
Toluene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.05	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.14	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.18	103	6.00	1.15	
Total BTEX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/12/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	182	91.0	200	1.60	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	162	81.2	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/11/2024
 Reported: 01/15/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF - 2 @ 1' (H240139-05)

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	01/12/2024	ND	2.13	107	2.00	0.824		
Toluene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.05		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.14		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.18	103	6.00	1.15		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	01/12/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	182	91.0	200	1.60	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	162	81.2	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2024	Sampling Date:	01/10/2024
Reported:	01/15/2024	Sampling Type:	Soil
Project Name:	HOSS SWD #001H	Sampling Condition:	Cool & Intact
Project Number:	19452	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: DEF - 2 @ 2' (H240139-06)

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	01/12/2024	ND	2.13	107	2.00	0.824	
Toluene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.05	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.14	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.18	103	6.00	1.15	
Total BTEX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	01/12/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	182	91.0	200	1.60	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	162	81.2	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2024	Sampling Date:	01/10/2024
Reported:	01/15/2024	Sampling Type:	Soil
Project Name:	HOSS SWD #001H	Sampling Condition:	Cool & Intact
Project Number:	19452	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: DEF - 2 @ 3' (H240139-07)

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	01/12/2024	ND	2.13	107	2.00	0.824	
Toluene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.05	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.14	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.18	103	6.00	1.15	
Total BTX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	01/12/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	182	91.0	200	1.60	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	162	81.2	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2024	Sampling Date:	01/10/2024
Reported:	01/15/2024	Sampling Type:	Soil
Project Name:	HOSS SWD #001H	Sampling Condition:	Cool & Intact
Project Number:	19452	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: DEF - 2 @ 4' (H240139-08)

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	01/12/2024	ND	2.13	107	2.00	0.824		
Toluene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.05		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.14		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.18	103	6.00	1.15		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/12/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	182	91.0	200	1.60	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	162	81.2	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/11/2024
 Reported: 01/15/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF - 3 @ 1' (H240139-09)

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	01/12/2024	ND	2.13	107	2.00	0.824		
Toluene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.05		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.14		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.18	103	6.00	1.15		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	01/12/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	182	91.0	200	1.60	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	162	81.2	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2024	Sampling Date:	01/10/2024
Reported:	01/15/2024	Sampling Type:	Soil
Project Name:	HOSS SWD #001H	Sampling Condition:	Cool & Intact
Project Number:	19452	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: DEF - 3 @ 2' (H240139-10)

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	01/12/2024	ND	2.13	107	2.00	0.824		
Toluene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.05		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.14		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.18	103	6.00	1.15		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	01/12/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	182	91.0	200	1.60		
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	162	81.2	200	14.2		
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND						

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/11/2024
 Reported: 01/15/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF - 3 @ 3' (H240139-11)

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	01/12/2024	ND	2.13	107	2.00	0.824	
Toluene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.05	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.14	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.18	103	6.00	1.15	
Total BTEX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	01/12/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	182	91.0	200	1.60	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	162	81.2	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/11/2024
 Reported: 01/15/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF - 3 @ 4' (H240139-12)

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	01/12/2024	ND	2.13	107	2.00	0.824		
Toluene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.05		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.12	106	2.00	1.14		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.18	103	6.00	1.15		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/12/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	182	91.0	200	1.60	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	162	81.2	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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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-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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Company Name: Etech Environmental & Safety Solutions, Inc.										BILL TO										ANALYSIS REQUEST									
Project Manager: Lance Crenshaw										P.O. #:										Chloride TPH (8015M) BTEX (8021B)									
Address: 2617 West Marland										Company: Mewbourne																			
City: Hobbs State: NM Zip: 88240										Attn: Connor Walker																			
Phone #: (575) 264-9884 Fax #:										Address:																			
Project #: 19452 Project Owner: Mewbourne										City:																			
Project Name: Hoss SWD #001H										State: NM Zip:																			
Project Location: 32.1515588, -104.0501793										Phone #:																			
Sampler Name: Dominic Casarez										Fax #:																			
FOR LAB USE ONLY										PRESERV.										SAMPLING									
Lab I.D.										Sample I.D.																			
11/24/13										(G)RAB OR (C)OMP.																			
										# CONTAINERS																			
										GROUNDWATER																			
										WASTEWATER																			
										SOIL																			
										OIL																			
										SLUDGE																			
										OTHER:																			
										ACID/BASE:																			
										ICE / COOL																			
										OTHER:																			
										DATE										TIME									
1										DEF-1 @ 1'										X X X									
2										DEF-1 @ 2'										X X X									
3										DEF-1 @ 3'										X X X									
4										DEF-1 @ 4'										X X X									
5										DEF-2 @ 1'										X X X									
6										DEF-2 @ 2'										X X X									
7										DEF-2 @ 3'										X X X									
8										DEF-2 @ 4'										X X X									
9										DEF-3 @ 1'										X X X									
10										DEF-3 @ 2'										X X X									
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Relinquished By: [Signature]										Date: 1-11-24										Received By: [Signature]									
Relinquished By: [Signature]										Time: 1447										Received By: [Signature]									
Delivered By: (Circle One)										Date: [Blank]										Time: [Blank]									
Sampler - UPS - Bus - Other:										#140										Sample Condition									
										-2.4c										Cool Intact									
																				Yes Yes									
																				No No									
																				CHECKED BY: (Initials)									
																				[Signature]									
Please email results and copy of CoC to pm@etechenv.com.																													
Push added 1/12/24 @ 0903 T.O.																													

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

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 19452 Project Owner: Mewbourne Project Name: Hoss SWD #001H Project Location: 32 1515588, -104.0501793 Sampler Name: Dominic Casarez						BILL TO				ANALYSIS REQUEST																
						P.O. #:		Chloride TPH (8015M) BTEX (8021B)																		
						Company Mewbourne																				
						Attn: Connor Walker																				
						Address:																				
						City:																				
						State: NM Zip:																				
						Phone #:																				
						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													
11/12	DEF-3 @ 3'		C	1	X				X			1/10/24		X	X	X										
	DEF-3 @ 4'		C	1	X				X			1/10/24		X	X	X										
<small>PLEASE NOTE: Liability and Damages: Cardinal's liability and extent of 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 accidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits sustained 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: 1-11-24 Received By: _____ Time: 1447						Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: _____ REMARKS: Push! added 1/12/24 @ 0903																				
Delivered By: (Circle One)						CHECKED BY: _____																				
Sampler - UPS - Bus - Other: _____						Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Initials: [Signature]																				

Please email results and copy of CoC to pm@etechenv.com.



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

January 16, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: HOSS SWD #001H

Enclosed are the results of analyses for samples received by the laboratory on 01/15/24 8:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/15/2024
 Reported: 01/16/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL -127 @ 6" (H240155-01)

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	01/15/2024	ND	2.21	111	2.00	1.95		
Toluene*	<0.050	0.050	01/15/2024	ND	2.24	112	2.00	2.34		
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.23	112	2.00	2.12		
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.78	113	6.00	1.60		
Total BTEX	<0.300	0.300	01/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/15/2024	ND	448	112	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	01/15/2024	ND	171	85.7	200	2.96	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	167	83.6	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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: 01/15/2024
 Reported: 01/16/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL -128 @ 6" (H240155-02)

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	01/15/2024	ND	2.21	111	2.00	1.95	
Toluene*	<0.050	0.050	01/15/2024	ND	2.24	112	2.00	2.34	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.23	112	2.00	2.12	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.78	113	6.00	1.60	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/15/2024	ND	448	112	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	01/15/2024	ND	171	85.7	200	2.96	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	167	83.6	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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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: 01/15/2024
 Reported: 01/16/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL -129 @ 6" (H240155-03)

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	01/15/2024	ND	2.21	111	2.00	1.95	
Toluene*	<0.050	0.050	01/15/2024	ND	2.24	112	2.00	2.34	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.23	112	2.00	2.12	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.78	113	6.00	1.60	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/15/2024	ND	448	112	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	01/15/2024	ND	171	85.7	200	2.96	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	167	83.6	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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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: 01/15/2024
 Reported: 01/16/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL -130 @ 6" (H240155-04)

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	01/15/2024	ND	2.21	111	2.00	1.95	
Toluene*	<0.050	0.050	01/15/2024	ND	2.24	112	2.00	2.34	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.23	112	2.00	2.12	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.78	113	6.00	1.60	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/15/2024	ND	448	112	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	01/15/2024	ND	171	85.7	200	2.96	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	167	83.6	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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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: 01/15/2024
 Reported: 01/16/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL -131 @ 6" (H240155-05)

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	01/15/2024	ND	2.21	111	2.00	1.95		
Toluene*	<0.050	0.050	01/15/2024	ND	2.24	112	2.00	2.34		
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.23	112	2.00	2.12		
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.78	113	6.00	1.60		
Total BTEX	<0.300	0.300	01/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/15/2024	ND	448	112	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	01/15/2024	ND	171	85.7	200	2.96	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	167	83.6	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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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: 01/15/2024
 Reported: 01/16/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL -132 @ 6" (H240155-06)

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	01/15/2024	ND	2.21	111	2.00	1.95		
Toluene*	<0.050	0.050	01/15/2024	ND	2.24	112	2.00	2.34		
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.23	112	2.00	2.12		
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.78	113	6.00	1.60		
Total BTEX	<0.300	0.300	01/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/15/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2024	ND	171	85.7	200	2.96	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	167	83.6	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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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: 01/15/2024
 Reported: 01/16/2024
 Project Name: HOSS SWD #001H
 Project Number: 19452
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL -133 @ 6" (H240155-07)

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	01/15/2024	ND	2.21	111	2.00	1.95		
Toluene*	<0.050	0.050	01/15/2024	ND	2.24	112	2.00	2.34		
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.23	112	2.00	2.12		
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.78	113	6.00	1.60		
Total BTEX	<0.300	0.300	01/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/15/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2024	ND	171	85.7	200	2.96	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	167	83.6	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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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. Project Manager: Lance Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 19452 Project Owner: Mewbourne Project Name: Hoss SWD #001H Project Location: 32.1515588, -104.0501793 Sampler Name: Dominic Casarez				BILL TO P.O. #: Company: SEE REMARKS Attn: Address: City: State: NM Zip: Phone #: Fax #:				ANALYSIS REQUEST											
FOR LAB USE ONLY Lab I.D. H240155		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV. ACID/BASE ICE / COOL OTHER:	SAMPLING DATE TIME		Chloride	TPH (8015M)	BTEX (8021B)								
	FL-127 @ 6"	C	1		X		X	1/12/24		X	X	X							
	FL-128 @ 6"	C	1		X		X	1/12/24		X	X	X							
	FL-129 @ 6"	C	1		X		X	1/12/24		X	X	X							
	FL-130 @ 6"	C	1		X		X	1/12/24		X	X	X							
	FL-131 @ 6"	C	1		X		X	1/12/24		X	X	X							
	FL-132 @ 6"	C	1		X		X	1/12/24		X	X	X							
	FL-133 @ 6"	C	1		X		X	1/12/24		X	X	X							
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																			
Relinquished By: [Signature] Date: 1-15-24 Time: 0808				Received By: [Signature] Date: Time:				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:											
Delivered By: (Circle One) - 3.8: Sampler - UPS - Bus - Other: #140				Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				CHECKED BY: [Signature] RUSH SAMPLES Bill analytical charges to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw. 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

Appendix E

Cave/Karst Survey

**DRILL SITE CONSULTING
822 W. DELAWARE
HOBBS NM, 88242**

**MEWBOURNE: HOSS 11 SWD #1
SECTION 11, TOWNSHIP 25 SOUTH, RANGE 28 EAST
EDDY COUNTY, NEW MEXICO**

CAVE AND KARST SURFACE EVALUATION

15 AUGUST, 2020

BLM PROJECT NUMBER, NM

Work was started and completed on 15 August, 2020.

The HOSS 11 PAD was identified. A 200 meter perimeter was walked around the entire pad within certain boundaries. A main oil field road establishes the east boundary and existing oil and gas installations provided some other boundaries. The area was walked and checked for cave and karst concerns.

**Cave or karst concerns were identified. They are highlighted in RED.
No other cave or karst concerns were identified.**

Points were verified by using Garmin GPSMAP 64 hand-held GPS units with 13 S, WGS 83 as the datum.

The POINT LOCATIONS are for determining the route and serve no other purposes.

HOSS 11 PAD

POINT LOCATION	EUTM	NUTM	DESCRIPTION
NW PAD CORNER	589512	3557689	LOCATED
NE PAD CORNER	589633	3557689	LOCATED
SW PAD CORNER	589513	3557564	LOCATED
SE PAD CORNER	589636	3557564	LOCATED
C/L PAD	589569	3557629	LOCATED

LUCID COMPRESSOR STATION PAD

POINT LOCATION	EUTM	NUTM	DESCRIPTION
NW CORNER OF PAD FENCE	589620	3557475	LOCATED
SW CORNER OF PAD FENCE	589657	3557356	LOCATED
SE CORNER OF PAD FENCE	589834	3557410	LOCATED
NE CORNER OF PAD FENCE	589797	3557527	LOCATED

200 METER PERIMETER

POINT LOCATION	EUTM	NUTM	DESCRIPTION
NW CORNER	589275	3577878	LOCATED
NE CORNER	589736	3577878	C/L OIL FIELD ROAD
SW CORNER	589314	3577368	LOCATED
SE CORNER	589314	3577368	C/L OIL FIELD ROAD

GRIDDING CRITERIA

The area was walked on 50 meter grid transects. The grid parameters were:

From east to west on 3557900N, 3557850N, 3557700N, 3557650N, 3557500N, & 3557450N starting at the main oil field road and stopping at 589300E,

and

From west to east on 3557800N, 3557750N, 3557600N, 3557550N, 3557400N, & 3557350N starting at 589300E and stopping at the main oil field road.

ADDITIONAL FINDINGS OBSERVED DURING THE GRIDDED WALK

- 1 SOLARIS BPL trending N-S on 589705E
- 2 LUCID BPL trending N-S on 589643E
- 3 LUCID BPL trending N-S on 589687E
- 4 4WIRE O/H POWER LINE trending N-S on 589640E
- 5 ORYX MIDSTREAM BPL trending NNW-SSE on 589483E
- 6 C/L road running NNW-SSE on 589391E
- 7 4 WIRE O/H POWER LINE trending NNW-SSE on 589385E
- 8 MEWBOURNE BWL on 589364E
- 9 A spill area ~40 feet square.

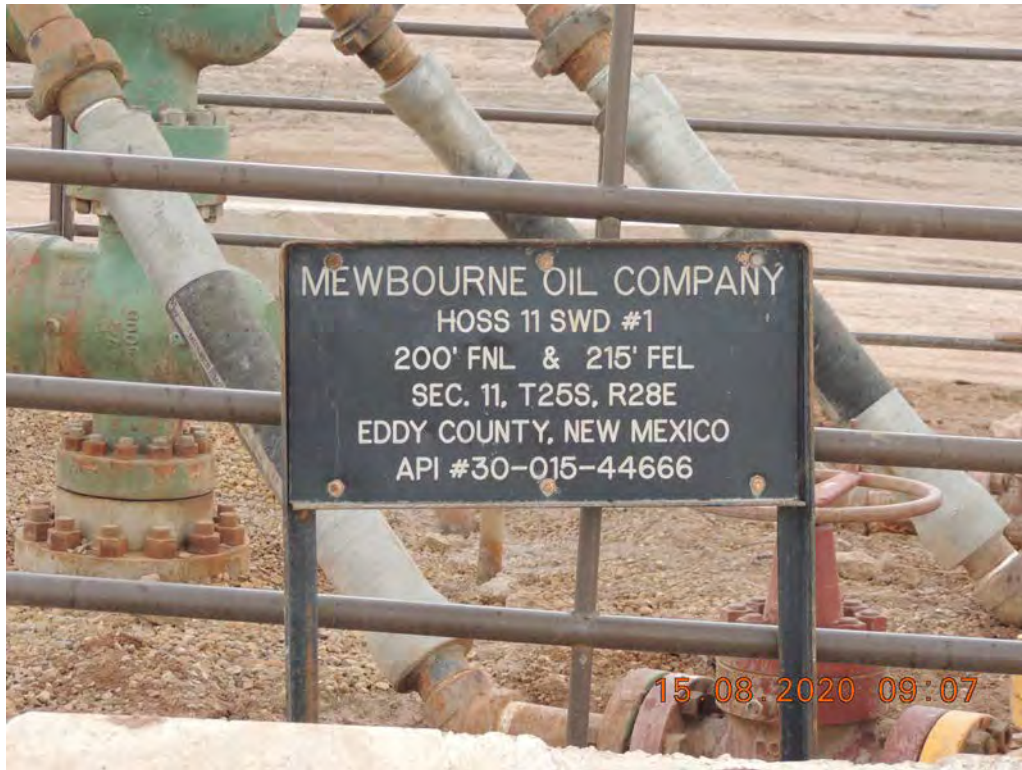
10 A valve located on the edge of the berm. Could be the source of the spill?? 589633E, 3557592N

The ground was composed of red/brown sandy soil. Small pieces of limestone are scattered in the walked area.

This evaluation includes only features apparent on the surface and does not include features which may exist sub-surface.

Photographs were taken.

David S. Belski
Cave and Karst Surface Evaluation



WELL PAD SIGNAGE



SURFACE DRAIN, 589304E, 3557882N, DEPTH UNKNOWN



SURFACE DRAIN, 589304E, 3557882N, DEPTH UNKNOWN



A 4" DIAMETER X 4+ FOOT DEEP HOLE DRILLED IN A SPILL AREA



A VALVE IN THE SPILL AREA, 589632E, 3557605N



A VALVE IN SPILL AREA, 589632E, 3557605N



TYPICAL SPILL AREA



CENTER OF SPILL AREA

**DRILL LLC**

P.O. Box 7269
Abilene, Texas 79608
Tel 325-690-0053
Fax 325-698-0055

Drill Report

M1 0957Date: Aug 22 Computer#: _____Customer: Newbourne 2 locations Rawhide Rd.Lease/well: Hess II Sand #1

Drilling Rig: _____

Rig measurement: _____

One Call#: _____

Prep Time 0530 Standby _____
Depart Shop _____ Arrived at Shop _____
Arrive at Loc. _____ Total Hours _____
Finished Job _____

Employees: McCracken, Shawn, Dylan

	Hole (Diameter x depth)	Pipe/cellar size	Total Drill Time
Cellar			
Conductor			
Mouse			
Rat			

Ground Level	Drilling conditions (describe material; rock, sand, gravel, clay, color of material, water zones, etc)
-----	53' Inside containment "No water"
-----	17' outside During drill
-----	Rawhide

-----	105' Pad on Rawhide "No water"
-----	During drill

Total Depth	

Cement	Total yards poured: _____		# Cement Trucks: _____ (volumetric/roller)	
	(in-house)	Squeezed by: _____ (list third party)		
Cement Employees:				
Water trucks (in house) #:		3rd party water/vac #:		
Drilling mud Bbls:				
Bullet teeth Qty:		Fencing provided?	yes___ no___ Type of fencing _____	

Job Notes

Appendix F

Regulatory Correspondence

From: [Connor Walker](#)
To: [Lance Crenshaw](#); [Jeff Broom](#); [Ben Arguijo](#)
Subject: FW: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 293419
Date: Tuesday, December 12, 2023 9:49:23 AM

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, December 12, 2023 8:49 AM
To: Connor Walker <cwalker@mewbourne.com>
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 293419

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2334251764.

The sampling event is expected to take place:

When: 12/15/2023 @ 08:00

Where: A-11-25S-28E 0 FNL 0 FEL (32.151553,-104.050179)

Additional Information: Dominic Casaraz

+1 (432) 813-1036

cominic@etechnv.com

Additional Instructions: From Start Point: (32.166375, -104, 071722) Head E for .50 miles, SE for .10 miles, E for .16 miles, NE for .54 miles, S for 1.1 miles, W for .12 miles to arrive at release. Hoss SWD #001H - (32.1515588, -104.0501793)

Samples will be taken from this date forward as the excavation progresses.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: [Hamlet, Robert, EMNRD](#)
To: [Lance Crenshaw](#)
Cc: [Joel Lowry](#); [Robbie Runnels](#); [Ben Arguijo](#)
Subject: RE: nRM2018244476 Hoss SWD
Date: Thursday, June 3, 2021 2:44:56 PM
Attachments: [OCD Internal Policy - Spill Rule Clarifications.pdf](#)

Lance,

Yes, as long as procedures for Implementation of the Spill Rule (19.15.29 NMAC) in the "Spill Rule Clarifications" document posted on the OCD Website were followed, you should be good.

XII. OBTAINING BACKGROUND DATA:

The rule speaks of "background" chloride concentrations in three places: 19.15.29.11(A)(5)(c) NMAC regarding unknown or large volume releases, as a footnote to Table I, and in 19.15.29.13(D)(1) NMAC regarding reclamation. How would a responsible party obtain information to determine background? A grab, not composite, sample(s) should be gathered in areas undisturbed by oil and gas activities, nominally uphill from the release area, and no closer than 50 feet but no farther than 100 feet from the lateral and horizontal extents of a release's impact. The background sampling should be representative of the entire horizontal and vertical extent of the release. Other means may be acceptable to OCD, but only after review and a written determination.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Lance Crenshaw <lance@etechenv.com>
Sent: Thursday, June 3, 2021 10:55 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Joel Lowry <joel@etechenv.com>; Robbie Runnels <rrunnels@mewbourne.com>; Ben Arguijo <bena@etechenv.com>
Subject: [EXT] nRM2018244476 Hoss SWD

Robert,

Good morning sir, hope all is well. I am writing in response to our phone conversation last week concerning the Hoss SWD project, and the naturally occurring chlorides we spoke of. I have attached laboratory analysis of our background sample data, as we dug a trench north and south of the

release area. We sampled at depths of 10', 12', 14', 16' and 18', with background data showing chloride concentrations at 1060 mg/kg at 18' below ground surface. The trenches were excavated in an area with ample growth and vegetation, and away from any production facilities, pads, etc. I just wanted to get in writing that we are good to go to use the 1060 mg/kg as our closure criteria for this release, instead of the 600 mg/kg due to the high karst area. Thank you for your time sir, have a good day.

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

Total Control Panel

To: ben@etechnv.com

From: robert.hamlet@state.nm.us

Message Score: 1

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State of New Mexico
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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 319173

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number: 319173
Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2334251764
Incident Name	NAPP2334251764 HOSS 11 SWD #1 (12-3-2023) @ 30-015-44666
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-015-44666] HOSS 11 SWD #001

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Hoss 11 SWD #1 (12-3-2023)
Date Release Discovered	12/03/2023
Surface Owner	Private

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Pump Crude Oil Released: 120 BBL Recovered: 68 BBL Lost: 52 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 458 BBL Recovered: 350 BBL Lost: 108 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)	Crude Oil Released 120 BBL; Recovered 68 BBL

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QUESTIONS, Page 2

Action 319173

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	319173
	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.
<i>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.</i>	

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: 12/08/2023
--	---

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QUESTIONS, Page 3

Action 319173

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	319173
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
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 ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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)	5280
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	30
GRO+DRO	(EPA SW-846 Method 8015M)	20
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.3
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	12/13/2023
On what date will (or did) the final sampling or liner inspection occur	01/18/2024
On what date will (or was) the remediation complete(d)	01/18/2024
What is the estimated surface area (in square feet) that will be reclaimed	35486
What is the estimated volume (in cubic yards) that will be reclaimed	2640
What is the estimated surface area (in square feet) that will be remediated	35486
What is the estimated volume (in cubic yards) that will be remediated	2640

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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QUESTIONS, Page 4

Action 319173

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	319173
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Remediation Plan (continued)**

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.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site 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 Facility
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site 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.

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: 02/29/2024
--	---

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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QUESTIONS, Page 5

Action 319173

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	319173
	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 release affected the area which contains the high voltage VFD's that run the SWD pumps. MOC excavated as much soil as possible around and in the area, but further excavation would risk striking the electrical and risk the integrity of the physical installations in the area.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	2130
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	316
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	HOSS 11 SWD 1 BATTERY [fAPP2125745599]
Enter the well API (30-) on which this deferral should be granted	30-015-44666 HOSS 11 SWD #001
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: 02/29/2024

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QUESTIONS, Page 6

Action 319173

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	319173
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	293419
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/15/2023
What was the (estimated) number of samples that were to be gathered	210
What was the sampling surface area in square feet	37000

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 319173

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 319173
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of DEF-1, DEF-2, and DEF-3 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	5/15/2024
scwells	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC	5/15/2024