

Remediation Summary & Soil Closure Request

Mewbourne Oil Company SLWMS Red Baron Booster

Lea County, New Mexico
Unit Letter "M", Section 15, Township 26 South, Range 32 East
Latitude 32.0365319 North, Longitude 103.6692761 West
NMOCD Reference No. nAPP2414129527

Prepared By:

Etech Environmental & Safety Solutions, Inc.
6309 Indiana Ave, Ste. D
Lubbock, Texas 79413



Ben J. Arguijo



Lance Crenshaw



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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 100 and 500 (ft.)
What method was used to determine the depth to groundwater?	NM OSE iWaters Database Search
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?	Between 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution or church?	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 ½ and 1 (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 1 and 5 (mi.)
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Between 200 and 300 (ft.)
Categorize the risk of this well/site being in a karst geology.	Medium
A 100-year floodplain?	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input 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 Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

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; and aerial imagery. The results are depicted in Figures 1, 2A, 2B, and 4.

On May 10, 2024, in accordance with New Mexico State Land Office (NMSLO) remediation guidelines and the Cultural Properties Protection Rule, an archaeological/cultural survey was conducted at the release site. The survey included a 100-foot cultural buffer around the inferred affected area, resulting in an Area of Potential Effects (APE) measuring approximately 5.55 acres (2.24 hectares). According to the New Mexico Cultural Resource Information System (NMCRIS) Investigation Abstract Form (NIAF), "No archaeological sites, historic properties, or isolated occurrences were observed during the current investigation. No additional investigation or treatment is recommended regarding the current undertaking." A copy of the NIAF is provided as Appendix F.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Site are as follows:

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

* Measured in milligrams per kilogram (mg/kg)

** Environmental Protection Agency

† 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 will (or did) the remediation commence?	5/14/2024	
On what date will (or did) the final sampling or liner inspection occur?	6/11/2024	
On what date will (or was) the remediation complete(d)?	6/13/2024	
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	21,561	
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	1,926	
What was the total surface area (sq. ft.) that has or will be remediated?	21,561	
What was the total volume (cy) that has or will be remediated?	2,300	
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 May 14, 2024, Etech commenced remediation activities at the 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 that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	944	FL 78 @ 1'	5/30/2024	1	Excavated
TPH	<30.0	All submitted samples	5/23-5/24, 5/28-5/30 & 6/11/2024	0 - 6	In-Situ & Excavated
GRO+DRO	<20.0	All submitted samples	5/23-5/24, 5/28-5/30 & 6/11/2024	0 - 6	In-Situ & Excavated
BTEX	<0.300	All submitted samples	5/23-5/24, 5/28-5/30 & 6/11/2024	0 - 6	In-Situ & Excavated
Benzene	<0.050	All submitted samples	5/23-5/24, 5/28-5/30 & 6/11/2024	0 - 6	In-Situ & Excavated

Please reference Table 1 for additional information.

On May 23, 2024, Etech collected 21 confirmation soil samples (FL 1 @ 4' through FL 5 @ 4' and FL 7 @ 4' through FL 22 @ 3') from the 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.

On May 24, 2024, Etech collected 19 confirmation soil samples (FL 6 @ 4', FL 23 @ 2' through FL 31 @ 2', NW 1 through NW 4, EW 1, SW 1, SW 2, SW 3, and WW 1) from the floor and 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 May 28, 2024, Etech collected 20 confirmation soil samples (FL 32 @ 2' through FL 51 @ 2') 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 May 29, 2024, Etech collected 19 confirmation soil samples (FL 52 @ 1' through FL 61 @ 3', NW 5, NW 6, EW 2 through EW 5, SW 4, SW 5, and SW 6) from the floor and 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 May 30, 2024, Etech collected 35 confirmation soil samples (FL 62 @ 1' through FL 85 @ 1', NW 7, EW 6 through EW 9, SW 7, SW 8, and WW 2 through WW 5) from the floor and 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 and TPH concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. Chloride concentrations in soil samples FL 70 @ 1', FL 72 @ 1', and FL 78 @ 1' exceeded the NMOCD Closure Criterion and NMOCD Reclamation Standard. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL 70 @ 1', FL 72 @ 1', and FL 78 @ 1'.

On June 11, 2024, Etech collected three (3) confirmation soil samples (FL 70 @ 2', FL 72 @ 2', and FL 78 @ 2') 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 350 to 576 feet in length, eight (8) to 108 feet in width, and one (1) to six (6) feet in depth. During the course of remediation activities, Etech transported approximately 2,300 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 2,200 cubic yards of locally sourced, non-impacted material to the Site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the Site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

5.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure 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
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	21,561	
What was the total volume (cy) remediated?	2,300	

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends that Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request remediation closure approval be granted to the Site.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION

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
Requesting a reclamation approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (in square feet) reclaimed?	21,561	
What was the total volume (in cubic yards) reclaimed?	1,926	

On May 15, 2024, a 5-point composite soil sample (R360 West Pit) was collected from the imported material stockpiled on-site to be utilized as backfill. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations in the soil sample were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards and confirmed that the material was acceptable for use as backfill.

From May 31 through June 13, 2024, upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with the stockpiled material (characterized by soil sample R360 West Pit) emplaced 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.

On June 18, 2024, in accordance with NMOCD and BLM requirements, the affected area was seeded with a certified weed-free BLM #2 seed mix. The seed was installed at the prescribed rate utilizing a broadcaster and harrow. Photographs of the seeding event and seed tag are provided in Appendix C.

7.0 LIMITATIONS

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

This report has been prepared for the benefit of 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

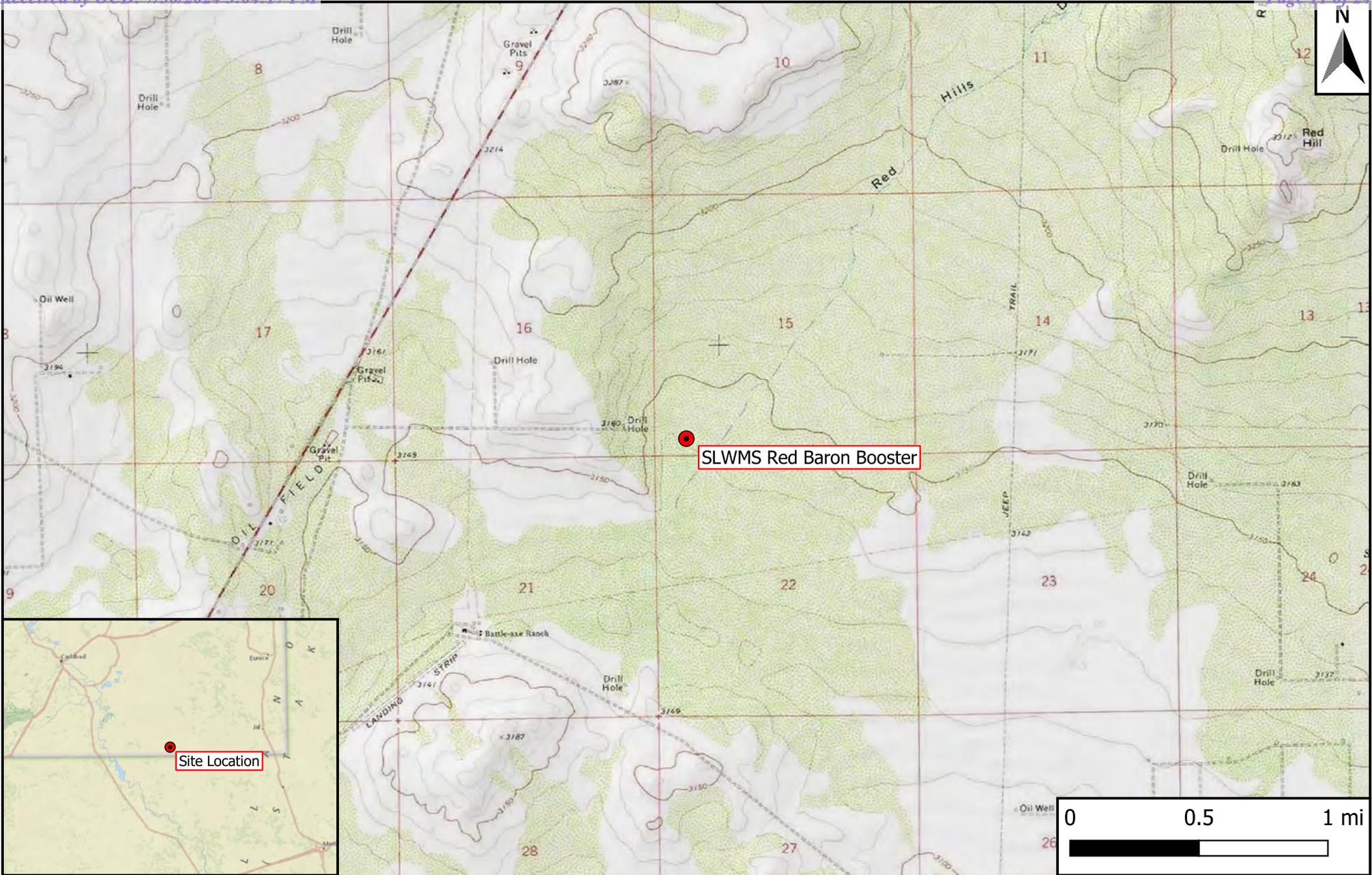
Mewbourne Oil Company
4801 Business Park Blvd.
Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1220 South St. Francis Drive
Santa Fe, NM 87505

United States Department of the Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220

(Electronic Submission)

Figure 1 Site Location Map



Legend

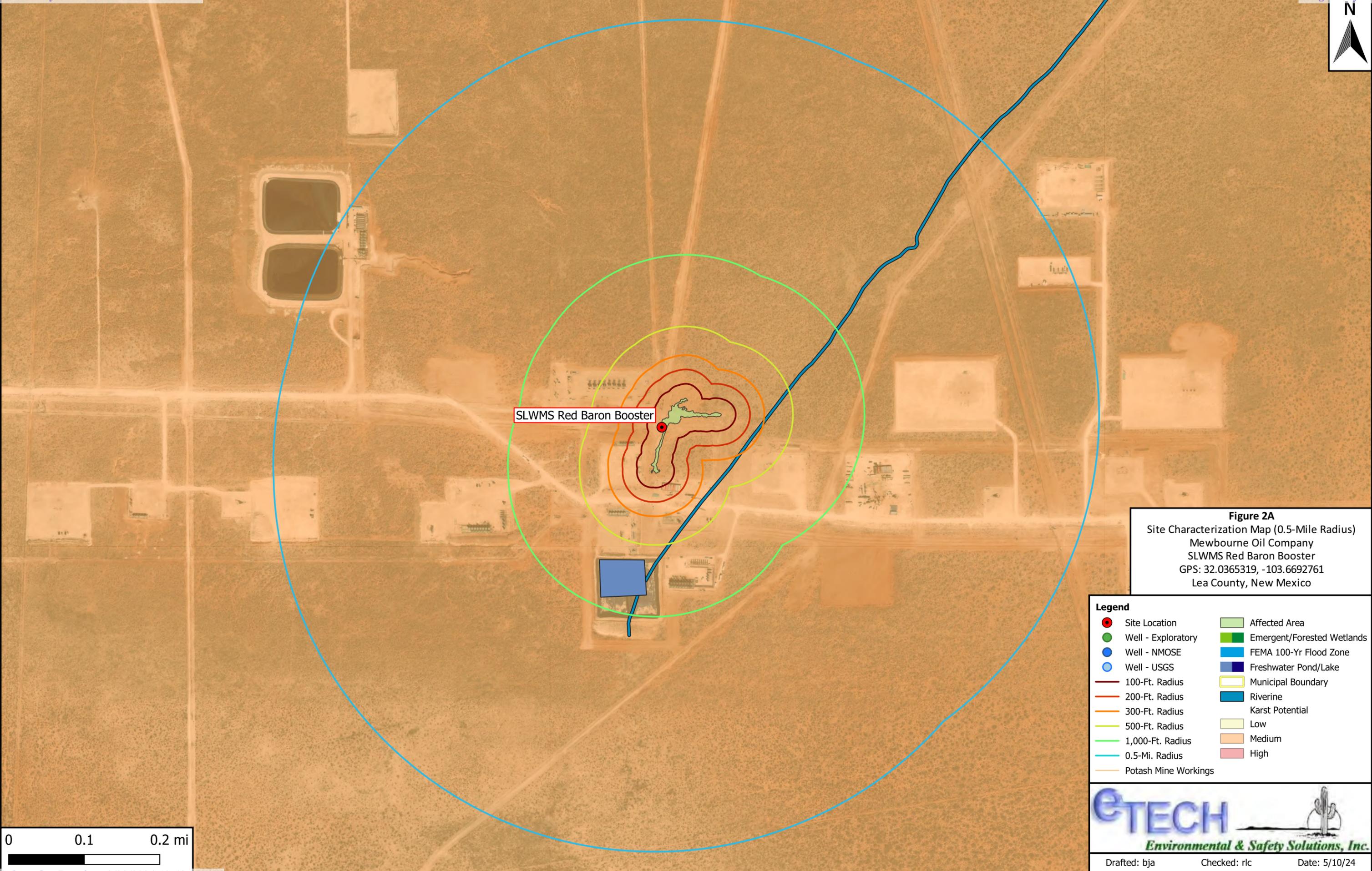
- Site Location

Figure 1

Site Location Map
 Mewbourne Oil Company
 SLWMS Red Baron Booster
 GPS: 32.0365319, -103.6692761
 Lea County, New Mexico



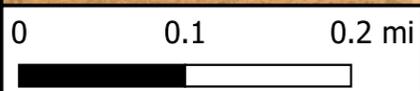
Figures 2A & 2B Site Characterization Maps



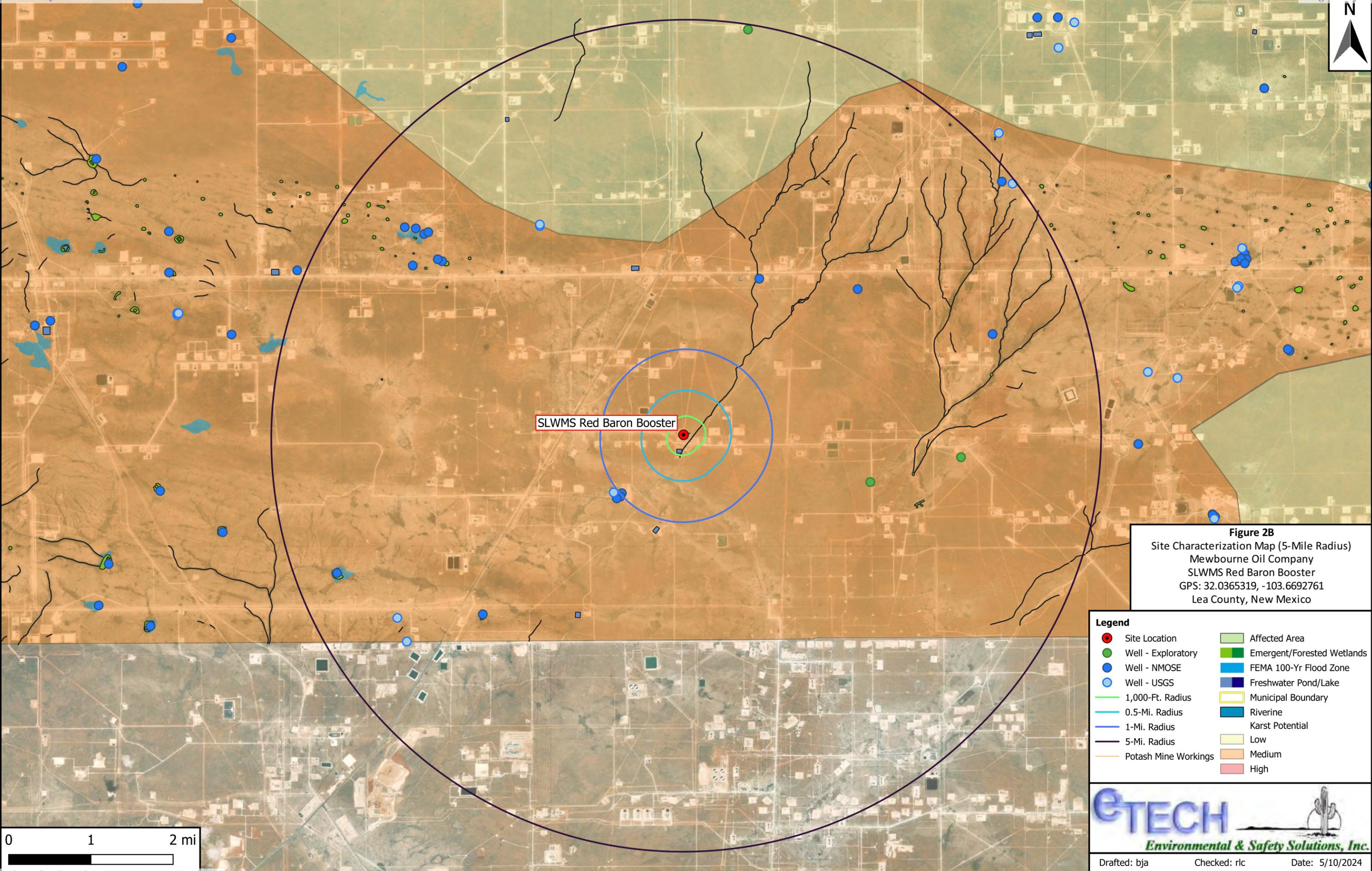
SLWMS Red Baron Booster

Figure 2A
 Site Characterization Map (0.5-Mile Radius)
 Mewbourne Oil Company
 SLWMS Red Baron Booster
 GPS: 32.0365319, -103.6692761
 Lea County, New Mexico

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



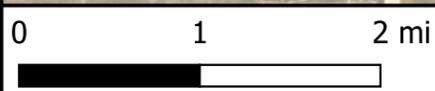
Drafted: bja Checked: rlc Date: 5/10/24



SLWMS Red Baron Booster

Figure 2B
 Site Characterization Map (5-Mile Radius)
 Mewbourne Oil Company
 SLWMS Red Baron Booster
 GPS: 32.0365319, -103.6692761
 Lea County, New Mexico

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



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 Environmental & Safety Solutions, Inc.

Drafted: bja Checked: rlc Date: 5/10/2024

Figure 3 Sample Location Map



Figure 3
 Sample Location Map
 Mewbourne Oil Company
 SLWMS Red Baron Booster
 GPS: 32.0365319, -103.6692761
 Lea County, New Mexico

- Legend**
- Excavation Extent (21,561 ft²)
 - Composite Floor Sample
 - Composite Wall Sample



Drafted: bja Checked: rlc Date: 7/26/24

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company SLWMS Red Baron Booster NMOCD Ref. #: nAPP2414129527											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C 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 1 @ 4'	5/23/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 2 @ 4'	5/23/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 3 @ 2'	5/23/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 4 @ 4'	5/23/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 5 @ 4'	5/23/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 6 @ 4'	5/24/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 7 @ 4'	5/23/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 8 @ 4'	5/23/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 9 @ 5'	5/23/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 10 @ 5'	5/23/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 11 @ 5'	5/23/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 12 @ 5'	5/23/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 13 @ 6'	5/23/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 14 @ 3'	5/23/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 15 @ 3'	5/23/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 16 @ 3'	5/23/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL 17 @ 6'	5/23/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 18 @ 6'	5/23/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 19 @ 4'	5/23/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 20 @ 2'	5/23/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 21 @ 3'	5/23/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 22 @ 3'	5/23/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 23 @ 2'	5/24/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 24 @ 2'	5/24/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 25 @ 2'	5/24/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 26 @ 4'	5/24/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 27 @ 3'	5/24/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 28 @ 3'	5/24/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 29 @ 3'	5/24/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 30 @ 3'	5/24/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 31 @ 2'	5/24/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 32 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 33 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 34 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 35 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 36 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 37 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 38 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 39 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 40 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 41 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 42 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 43 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 44 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 45 @ 3'	5/28/2024	3	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 Border with Shading: Highest observed concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company SLWMS Red Baron Booster NMOCD Ref. #: nAPP2414129527											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C 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 46 @ 4'	5/28/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 47 @ 4'	5/28/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 48 @ 3'	5/28/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 49 @ 3'	5/28/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 50 @ 4'	5/28/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 51 @ 2'	5/28/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 52 @ 1'	5/29/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 53 @ 1'	5/29/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 54 @ 2'	5/29/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 55 @ 1'	5/29/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 56 @ 4'	5/29/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 57 @ 1'	5/29/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 58 @ 1'	5/29/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 59 @ 3'	5/29/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 60 @ 3'	5/29/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 61 @ 3'	5/29/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 62 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 63 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 64 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 65 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 66 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 67 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 68 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 69 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 70 @ 1'	5/30/2024	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
FL 70 @ 2'	6/11/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 71 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 72 @ 1'	5/30/2024	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	688
FL 72 @ 2'	6/11/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 73 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 74 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 75 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 76 @ 4'	5/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FL 77 @ 4'	5/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 78 @ 1'	5/30/2024	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	944
FL 78 @ 2'	6/11/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 79 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 80 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 81 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 82 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 83 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 84 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 85 @ 1'	5/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 1	5/24/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 2	5/24/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

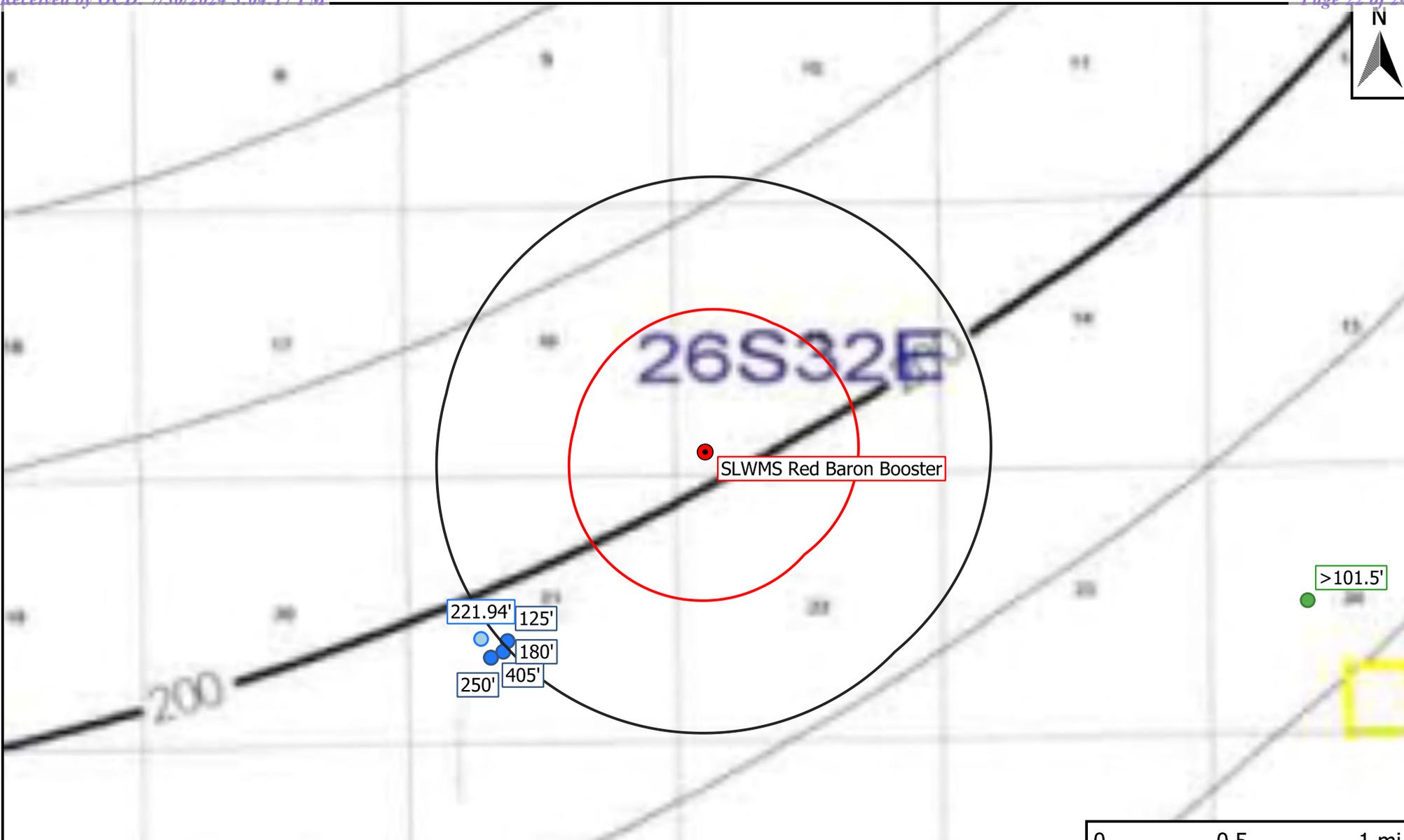
Dash (-): Sample not analyzed for that constituent.
Bold: NMOCD Closure Criteria exceedance.
Red: NMOCD Reclamation Standard exceedance.
 Red Border with Shading: Highest observed concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company SLWMS Red Baron Booster NMOCD Ref. #: nAPP2414129527											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C 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)
NW 3	5/24/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 4	5/24/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 5	5/29/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW 6	5/29/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW 7	5/30/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 1	5/24/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 2	5/29/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
EW 3	5/29/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 4	5/29/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 5	5/29/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EW 6	5/30/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 7	5/30/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 8	5/30/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 9	5/30/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 1	5/24/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 2	5/24/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 3	5/24/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 4	5/29/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW 5	5/29/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 6	5/29/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 7	5/30/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 8	5/30/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 1	5/24/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 2	5/30/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 3	5/30/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 4	5/30/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 5	5/30/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
Backfill Sample											
R360 West Pit	5/15/2024	N/A	Backfill	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272

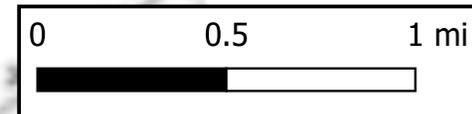
Dash (-): Sample not analyzed for that constituent.
Bold: NMOCD Closure Criteria exceedance.
Red: NMOCD Reclamation Standard exceedance.
 Red Border with Shading: Highest observed concentration.

Appendix A

Depth to Groundwater Information



Note: Only NMOSE and USGS wells with recorded depth to groundwater gauging data are depicted.



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
 SLWMS Red Baron Booster
 GPS: 32.0365319, -103.6692761
 Lea County, New Mexico



Drafted: bja

Checked: rlc

Date: 5/10/24



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 1	Sec	Tws	Rng	X	Y	Distance	Well Depth	Water Column
C_02271	R	CUB	LE	2	3	21	26S	32E		624449	3544111*	1660	150	125 25
C_03595 POD1		CUB	LE	4	2	3	21	26S	32E	624423	3544045	1725	280	180 100
C_02271 POD2		CUB	LE	3	2	3	21	26S	32E	624348	3544010*	1803	270	250 20
C_02323		C	LE	3	2	3	21	26S	32E	624348	3544010*	1803	405	405 0
C_03537 POD1		CUB	LE	3	2	3	21	26S	32E	624250	3543985	1891	850	

Average Depth to Water: **240 feet**
 Minimum Depth: **125 feet**
 Maximum Depth: **405 feet**

Record Count:5

UTMNAD83 Radius Search (in meters):

Easting (X): 625649.1

Northing (Y): 3545259

Radius: 3220

*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.

7/18/24 7:40 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)				
Well Tag	POD Number	(quarters are smallest to largest)	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02271		2	3	21	26S	32E	624449	3544111*	

Driller License:		Driller Company:	
Driller Name:	UNKNOWN		
Drill Start Date:		Drill Finish Date:	12/31/1909
Log File Date:		PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	8.00	Depth Well:	150 feet
		Plug Date:	
		Source:	
		Estimated Yield:	15 GPM
		Depth Water:	125 feet

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						
Well Tag	POD Number	(quarters are smallest to largest)	(NAD83 UTM in meters)					
		Q64 Q16 Q4 Sec Tws Rng	X Y					
	C 03595 POD1	4 2 3 21 26S 32E	624423 3544045					

Driller License: 1654	Driller Company: NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC	
Driller Name:		
Drill Start Date: 09/30/2013	Drill Finish Date: 09/30/2013	Plug Date:
Log File Date: 10/29/2013	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 6.00	Depth Well: 280 feet	Depth Water: 180 feet

Water Bearing Stratifications:	Top	Bottom	Description
	160	200	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	200	240

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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	02271 POD2	3	2	3	21	26S	32E	624348	3544010*

Driller License: 208	Driller Company: VAN NOY, W.L.	
Driller Name: W.L. VAN NOY		
Drill Start Date: 08/28/1992	Drill Finish Date: 09/09/1992	Plug Date:
Log File Date: 10/28/1992	PCW Rcv Date:	Source: Shallow
Pump Type: SUBMER	Pipe Discharge Size:	Estimated Yield: 15 GPM
Casing Size: 6.38	Depth Well: 270 feet	Depth Water: 250 feet

Water Bearing Stratifications:	Top	Bottom	Description
	225	265	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	205	265

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

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

*UTM location was derived from PLSS - see Help

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

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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)						
Well Tag	POD Number	(quarters are smallest to largest)	(NAD83 UTM in meters)					
		Q64 Q16 Q4 Sec Tws Rng	X Y					
		3 2 3 21 26S 32E	624250 3543985					

Driller License:

Driller Company:

Driller Name:

Drill Start Date:

Drill Finish Date:

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 8.63

Depth Well: 850 feet

Depth Water:

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.

5/7/24 1:02 PM

POINT OF DIVERSION SUMMARY



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

[Click for News Bulletins](#)

[Groundwater levels for the Nation](#)

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320134103384101

Minimum number of levels = 1

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

USGS 320134103384101 26S.32E.21.32311

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°01'35.2", Longitude 103°41'01.8" NAD83

Land-surface elevation 3,130 feet above NAVD88

The depth of the well is 405 feet below land surface.

The depth of the hole is 405 feet below land surface.

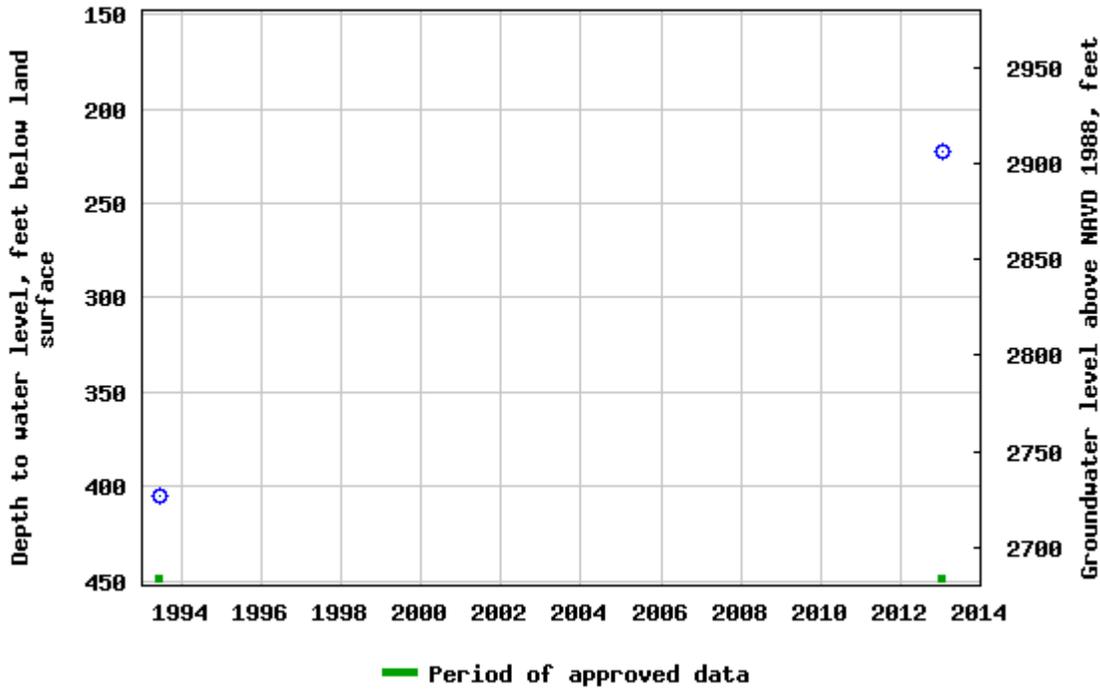
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Dockum Group (231DCKM) local aquifer.

Output formats

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

USGS 320134103384101 26S,32E.21,32311



Breaks in the plot represent a gap of at least one year between field measurements. [Download a presentation-quality graph](#)

- [Questions or Comments](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2024-05-07 14:58:08 EDT

0.8 0.69 nadww01

Appendix B

Field Data



Sample Log

Date: _____

Project: SLWMS Red Baron Booster

Project Number: 20408 Latitude: 32.036734 Longitude: -103.66888

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-1@1'	-	2,480	
FL-2@1'	-	2,140	
FL-7@1'	-	980	
FL-4@1'	-	2,140	
FL-1@2'	-	716	
FL-2@2'	-	2,304	
FL-3@2'	-	552	
FL-4@2'	-	908	
FL-5@2'	-	2,140	
FL-6@2'	-	1,860	
FL-1@3'	-	1,616	
FL-2@3'	-	896	
FL-4@3'	-	604	
FL-5@3'	-	660	
FL-6@3'	-	2,480	
FL-9@4'	-	412	
FL-5@4'	-	456	
FL-1@4'	-	332	
FL-2@4'	-	332	
FL-7@2'	-	1,616	
FL-8@2'	-	604	
FL-6@3'	-	1,860	
FL-7@3'	-	1,136	
FL-8@3'	-	1,312	
FL-6@4'	-	456	
FL-7@4'	-	500	
FL-8@4'	-	512	
FW-1	-	552	
WW-1	-	552	
FL-9@4'	-	604	
FL-9@5'	-	456	
FL-10@2'	-	2,480	
FL-10@3'	-	2,140	
FL-10@4'	-	980	
FL-10@5'	-	260	
NW-1	-	500	

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



~~SECRET~~

Date: _____

Project: SLWMS Red Baron Booster

Project Number: 20408 Latitude: 32.036734 Longitude: -103.66888

Depth (ft. bgs)	Description
1	FL-11 @ 2' - 2,480
2	FL-11 @ 7' - 2,480
3	FL-11 @ 4' - 1,056
4	FL-11 @ 5' - 500
5	FL-12 @ 2' - 2,480
6	FL-12 @ 3' - 1,616
7	FL-12 @ 4' - 1,312
8	FL-12 @ 5' - N/A
9	FL-13 @ 2' - 5,224
10	FL-13 @ 3' - 4,096
11	FL-13 @ 4' - 2,480
12	FL-13 @ 5' - 1,312
13	FL-13 @ 6' - 552
14	FL-14 @ 2' - 1,616
15	FL-14 @ 3' - 196
16	FL-15 @ 2' - 980
17	FL-15 @ 2' - 980
18	FL-15 @ 3' - 412
19	FL-16 @ 2' - 846
20	FL-16 @ 3' - 456
21	FL-17 @ 2' - 2,480
22	FL-17 @ 3' - 1,312
23	FL-17 @ 4' - 1,816
24	SU-1 - 500
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	



Sample Log

Date: _____

Project: _____
 Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-17@5'	-	1312	
FL-17@6'	-	N/D	
FL-18@2'	-	2,480	
FL-18@3'	-	1,998	
FL-18@4'	-	6,624	
FL-18@5'	-	1,312	
FL-18@6'	-	228	
FL-19@2'	-	2,744	
FL-19@3'	-	980	
FL-19@4'	-	N/D	
FL-20@2'	-	292	
FL-21@2'	-	1,460	
FL-21@3'	-	1,460 532	
FL-22@2'	-	1,460 1,312	
FL-22@3'	-	228	
FL-23@2'	-	292	
FL-24@2'	-	N/D	
FL-25@2'	-	N/D	
FL-26@2'	-	N/D	
NW-2	-	228	
NW-3	-	332	
NW-4	-	292	
SW-2	-	N/D	
SW-3	-	N/D	
FL-27@2'	-	604	
FL-27@3'	-	196	
FL-28@2'	-	980	
FL-28@3'	-	N/D	
FL-29@2'	-	660	
FL-30@2'	-	716	
FL-29@3'	-	N/D	
FL-30@3'	-	196	
FL-31@2'	-	N/D	
FL-32@2'	-	196	
FL-33@2'	-	N/D	
FL-34@2'	-	192	

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
FL-35 @ 2'	-	196	
FL-36 @ 3'	-	N/A	
FL-37 @ 2'	-	N/A	
FL-38 @ 2'	-	284	
FL-39 @ 2'	-	228	
FL-40 @ 2'	-	196	
FL-41 @ 2'	-	N/A	
FL-42 @ 2'	-	N/A	
FL-43 @ 2'	-	292	
FL-44 @ 2'	-	284	
FL-45 @ 2'	-	2,140	
FL-46 @ 2'	-	2,744	
FL-47 @ 2'	-	2,744	
FL-45 @ 3'	-	480	
FL-46 @ 3'	-	692	
FL-47 @ 3'	-	6,464	
FL-46 @ 4'	-	316	
FL-47 @ 4'	-	352	
FL-48 @ 2'	-	1,928	
FL-49 @ 2'	-	2,068	
FL-50 @ 2'	-	816	
FL-48 @ 3'	-	192	
FL-49 @ 3'	-	2,836	
FL-50 @ 3'	-	2,480	
FL-50 @ 4'	-	196	
FL-51 @ 2'	-	228	
FL-52 @ 1'	-	292	
FL-53 @ 1'	-	196	
FL-54 @ 1'	-	6,800	
FL-55 @ 1'	-	N/A	
FL-54 @ 1'	-	192	
SW-4	-	292	
SW-5	-	196	
SW-6	-	228	
NW-5	-	352	
NW-6	-	480	

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
EW-2	-	500	
EW-3	-	N/D	
EW-4	-	N/D	
EW-5	-	292	
FL-24 @ 4' 56	-	124	
FL-27 @ 1' 57	-	392	
FL-28 @ 1' 58	-	580	
FL-29 @ 1' 59	-	1104	
FL-30 @ 1'	-	1800	
FL-39 @ 2'	-	884	
FL-40 @ 2'	-	816	
FL-59 @ 3'	-	144	
FL-60 @ 3'	-	124	
FL-61 @ 3'	-	N/D	
FL-62 @ 1'	-	N/D	
FL-63 @ 1'	-	192	
FL-64 @ 1'	-	124	
FL-65 @ 1'	-	352	
FL-66 @ 1'	-	352	
FL-67 @ 1'	-	392	
FL-68 @ 1'	-	352	
FL-69 @ 1'	-	528	
FL-70 @ 1'	-	352	
FL-71 @ 1'	-	392	
FL-72 @ 1'	-	292	
FL-73 @ 1'	-	144	
FL-74 @ 1'	-	292	
FL-75 @ 1'	-	124	
FL-76 @ 1'	-	1276	
FL-77 @ 1'	-	816	
FL-76 @ 2'	-	632	
FL-77 @ 2'	-	816	
FL-76 @ 3'	-	1800	
FL-77 @ 3'	-	1800	
FL-76 @ 4'	-	500	
FL-77 @ 4'	-	580	

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

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: East	
Date Taken: 5/3/2024	
Coordinates: 32.036631,-103.669499	
Photo Description: Aerial view of the affected area.	

Photo Number: 2	
Photo Direction: South	
Date Taken: 5/3/2024	
Coordinates: 32.037313,-103.668509	
Photo Description: Aerial view of the affected area.	

Photographic Log

Photo Number: 3	
Photo Direction: Southwest	
Date Taken: 5/3/2024	
Coordinates: 32.037004,-103.668980	
Photo Description: Aerial view of the affected area.	

Photo Number: 4	
Photo Direction: Southeast	
Date Taken: 5/3/2024	
Coordinates: 32.036654,-103.669193	
Photo Description: Oblique aerial view of the affected area.	

Photographic Log

Photo Number: 5	
Photo Direction: East	
Date Taken: 5/3/2024	
Coordinates: 32.036729,-103.669138	
Photo Description: Oblique aerial view of the affected area.	

Photo Number: 6	
Photo Direction: South	
Date Taken: 5/3/2024	
Coordinates: 32.036554,-103.669195	
Photo Description: Oblique aerial view of the affected area.	

Photographic Log

Photo Number: 7	
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 8	
Photo Direction: East-Southeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 9	
Photo Direction: East-Southeast	
Photo Description: View of the excavated area.	

Photo Number: 10	
Photo Direction: East-Southeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	 <p>May 31, 2024 at 10:24:57 AM +32.036895,-103.668650 132° SE Jal NM 88252 United States</p>
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photo Number: 12	 <p>May 31, 2024 at 10:25:24 AM +32.036943,-103.668875 117° SE Jal NM 88252 United States</p>
Photo Direction: East-Southeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 13	 <p>May 31, 2024 at 10:25:33 AM +32.036943,-103.668875 189° S Jal NM 88252 United States</p>
Photo Direction: South	
Photo Description: View of the excavated area.	

Photo Number: 14	 <p>May 31, 2024 at 10:27:57 AM +32.036748,-103.668845 254° W Jal NM 88252 United States</p>
Photo Direction: West-Southwest	
Photo Description: View of the excavated area.	

Photographic Log

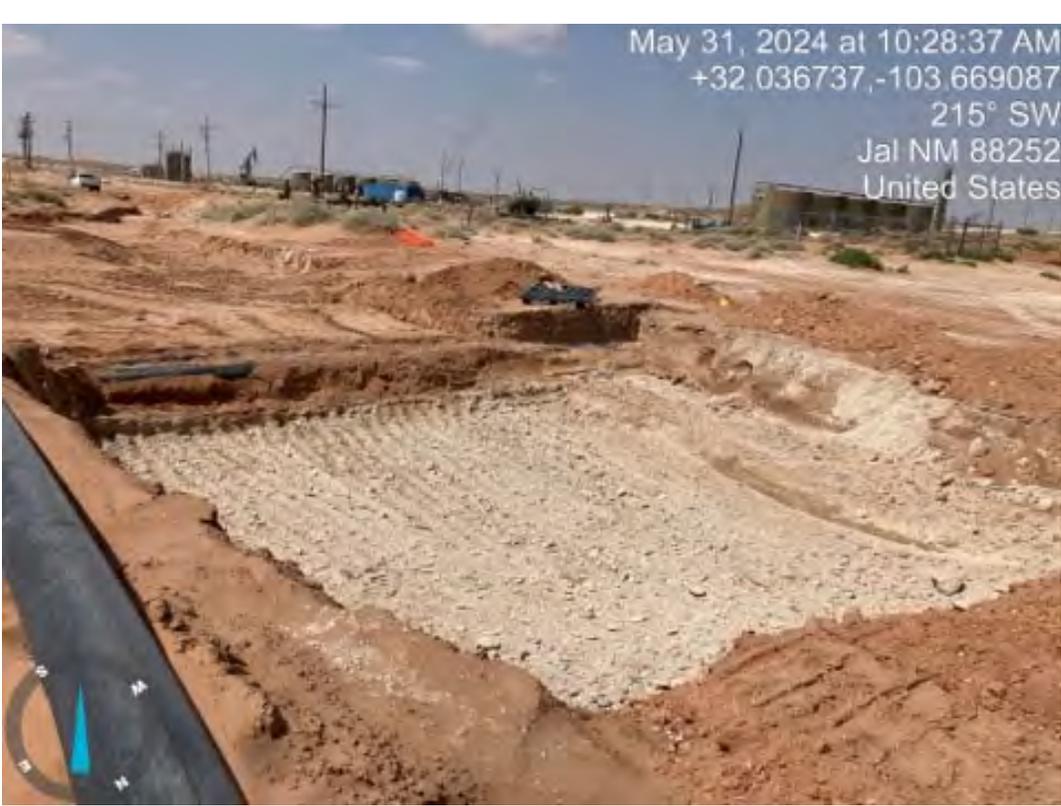
Photo Number: 15	
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photo Number: 16	
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 17	 <p>May 31, 2024 at 10:30:16 AM +32.036712,-103.669151 160° S Jal NM 88252 United States</p>
Photo Direction: South-Southeast	
Photo Description: View of the excavated area.	

Photo Number: 18	 <p>May 31, 2024 at 10:30:38 AM +32.036454,-103.669203 205° SW Jal NM 88252 United States</p>
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 19	 <p>May 31, 2024 at 10:31:43 AM +32.035981,-103.669389 209° SW Jal NM 88252 United States</p>
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photo Number: 20	 <p>May 31, 2024 at 10:31:58 AM +32.035892,-103.669424 196° S Jal NM 88252 United States</p>
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 21	 <p>WGS84 32.03713 °T SE159 ±15ft -103.66862 M 3178 ±12ft</p> <p>13Jun24 12:57 Ad-hoc Jal NM 88252, United States © 13-Jun-24 12:57:15</p>
Photo Direction: South-Southeast	
Photo Description: View of the remediated area following backfilling and regrading.	

Photo Number: 22	 <p>WGS84 32.03702 °T E79 ±16ft -103.66899 M 3164 ±12ft</p> <p>13Jun24 12:57 Ad-hoc Jal NM 88252, United States © 13-Jun-24 12:57:54</p>
Photo Direction: East	
Photo Description: View of the remediated area following backfilling and regrading.	

Photographic Log

Photo Number: 23	
Photo Direction: East-Northeast	
Photo Description: View of the remediated area following backfilling and regrading.	

Photo Number: 24	
Photo Direction: South	
Photo Description: View of the remediated area following backfilling and regrading.	

Photographic Log

Photo Number: 25	 <p>Free version at GPS Camera 55</p> <p>13Jun24 13:13 Ad-hoc Jal NM 88252, United States © 13-Jun-24 13:13:00</p>
Photo Direction: South	
Photo Description: View of the remediated area following backfilling and regrading.	

Photo Number: 26	 <p>Free version at GPS Camera 55</p> <p>13Jun24 13:14 Ad-hoc Jal NM 88252, United States © 13-Jun-24 13:14:22</p>
Photo Direction: South	
Photo Description: View of the remediated area following backfilling and regrading.	

Photographic Log

Photo Number: 27	 <p>Freevision of GPS Camera 5</p> <p>13Jun24 13:14 Ad-hoc Jal NM 88252, United States © 13-Jun-24 13:14:00</p>
Photo Direction: South-Southwest	
Photo Description: View of the remediated area following backfilling and regrading.	

Photo Number: 28	 <p>Freevision of GPS Camera 5</p> <p>13Jun24 13:15 Ad-hoc Jal NM 88252, United States © 13-Jun-24 13:15:36</p>
Photo Direction: East-Southeast	
Photo Description: View of the remediated area following backfilling and regrading.	

Photographic Log

Photo Number: 29	 <p>Free Version of GPS Camera 5.5</p> <p>13-Jun-24 13:15 Ad-hoc Jal NM 88252, United States © 13-Jun-24 13:15:06</p>
Photo Direction: East	
Photo Description: View of the remediated area following backfilling and regrading.	

Photo Number: 30	 <p>Free Version of GPS Camera 5.5</p> <p>13-Jun-24 13:16 Ad-hoc Jal NM 88252, United States © 13-Jun-24 13:16:11</p>
Photo Direction: East-Southeast	
Photo Description: View of the remediated area following backfilling and regrading.	

Photographic Log

Photo Number: 31	
Photo Direction: South-Southeast	
Photo Description: View of the affected area following seeding event.	

Photo Number: 32	
Photo Direction: Southeast	
Photo Description: View of the affected area following seeding event.	

Photographic Log

Photo Number: 33	
Photo Direction: East-Northeast	
Photo Description: View of the affected area following seeding event.	

Photo Number: 34	
Photo Direction: North	
Photo Description: View of the affected area following seeding event.	

Photographic Log

Photo Number: 35	
Photo Direction: Northeast	
Photo Description: View of the affected area following seeding event.	

Photo Number: 36	<p style="text-align: center;">Bamert Seed Company Inc.</p> <p>1897 CR 1018 Muleshoe, TX 79347 (800) 262-9892 Permit # TX00905</p> <p>BLM #2 SLWMS Red Baron Booster , Lot/Sales # SO-81944</p> <table border="1"> <thead> <tr> <th>Kind & Variety</th> <th>Pure Seed</th> <th>Germ</th> <th>Dormant</th> <th>Hard Seed</th> <th>Origin</th> </tr> </thead> <tbody> <tr> <td>Bristlegrass Plains, (<i>Setaria vulpisetia</i>)</td> <td>40.83%</td> <td>31.00%</td> <td>64.00%</td> <td>0.00%</td> <td>OK</td> </tr> <tr> <td>Dropseed, Sand (<i>Sporobolus cryptandrus</i>)</td> <td>30.78%</td> <td>1.00%</td> <td>62.00%</td> <td>0.00%</td> <td>NM</td> </tr> <tr> <td>Lovegrass Sand, "Brid" (<i>Eragrostis trichodes</i>)</td> <td>19.59%</td> <td>90.00%</td> <td>9.00%</td> <td>0.00%</td> <td>TX</td> </tr> </tbody> </table> <p>Purity: 91.20% Inert Matter: 8.73% Other Crop Seed: 0.05% Weed Seed: 0.00%</p> <p>Noxious Weed Seed Per/Lb: None Test Date: 04/2024 Net Wt: 15.5 lbs</p>	Kind & Variety	Pure Seed	Germ	Dormant	Hard Seed	Origin	Bristlegrass Plains, (<i>Setaria vulpisetia</i>)	40.83%	31.00%	64.00%	0.00%	OK	Dropseed, Sand (<i>Sporobolus cryptandrus</i>)	30.78%	1.00%	62.00%	0.00%	NM	Lovegrass Sand, "Brid" (<i>Eragrostis trichodes</i>)	19.59%	90.00%	9.00%	0.00%	TX
Kind & Variety		Pure Seed	Germ	Dormant	Hard Seed	Origin																			
Bristlegrass Plains, (<i>Setaria vulpisetia</i>)		40.83%	31.00%	64.00%	0.00%	OK																			
Dropseed, Sand (<i>Sporobolus cryptandrus</i>)	30.78%	1.00%	62.00%	0.00%	NM																				
Lovegrass Sand, "Brid" (<i>Eragrostis trichodes</i>)	19.59%	90.00%	9.00%	0.00%	TX																				
Photo Direction: N/A																									
Photo Description: BLM #2 seed tag.																									

Appendix D

Laboratory Analytical Reports



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

May 28, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLWMS RED BARON BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 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, prominent 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 1 @ 4' (H242886-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	16.0	16.0	05/24/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 2 @ 4' (H242886-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/24/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 3 @ 2' (H242886-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/24/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 4 @ 4' (H242886-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-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	05/24/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
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Received:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 5 @ 4' (H242886-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	32.0	16.0	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 7 @ 4' (H242886-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 8 @ 4' (H242886-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 9 @ 5' (H242886-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	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	80.0	16.0	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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 2617 W MARLAND
 HOBBS NM, 88240
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Received:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 10 @ 5' (H242886-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 11 @ 5' (H242886-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	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	288	16.0	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 12 @ 5' (H242886-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	32.0	16.0	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 13 @ 6' (H242886-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 14 @ 3' (H242886-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	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	48.0	16.0	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 15 @ 3' (H242886-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 16 @ 3' (H242886-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	432	16.0	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 17 @ 6' (H242886-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 18 @ 6' (H242886-17)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	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	288	16.0	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 19 @ 4' (H242886-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 20 @ 2' (H242886-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	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	96.0	16.0	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 21 @ 3' (H242886-20)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.71	85.6	2.00	1.48	
Toluene*	<0.050	0.050	05/25/2024	ND	1.86	92.8	2.00	0.223	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.89	94.6	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.76	95.9	6.00	0.437	
Total BTEX	<0.300	0.300	05/25/2024	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	128	16.0	05/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	224	112	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	218	109	200	0.707	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 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:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE - 32.036734-103.66888		

Sample ID: FL 22 @ 3' (H242886-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	05/28/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	197	98.5	200	3.89	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	193	96.5	200	5.50	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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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. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																			
Address: 2617 West Marland				Company: SEE REMARKS																							
City: Hobbs		State: NM		Zip: 88240		Attn:																					
Phone #: (575) 264-9884		Fax #:		Address:																							
Project #: 20408		Project Owner: Mewbourne		City:																							
Project Name: SLWMS Red Baron Booster				State: NM														Zip:									
Project Location: 32.036734, -103.66888				Phone #:																							
Sampler Name: Martin Sepulveda				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													
H2U7886				C	1	X				X			5/23/24		X	X	X										
11		FL 12 @ 5'		C	1	X				X			5/23/24		X	X	X										
12		FL 13 @ 6'		C	1	X				X			5/23/24		X	X	X										
13		FL 14 @ 3'		C	1	X				X			5/23/24		X	X	X										
14		FL 15 @ 3'		C	1	X				X			5/23/24		X	X	X										
15		FL 16 @ 3'		C	2	X				X			5/23/24		X	X	X										
16		FL 17 @ 6'		C	3	X				X			5/23/24		X	X	X										
17		FL 18 @ 6'		C	4	X				X			5/23/24		X	X	X										
18		FL 19 @ 4'		C	5	X				X			5/23/24		X	X	X										
19		FL 20 @ 2'		C	6	X				X			5/23/24		X	X	X										
20		FL 21 @ 3'		C	7	X				X			5/23/24		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: 5/23/24		Received By:				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:						RUSH SAMPLES - 48 HOUR																	
Delivered By: (Circle One) - GIC						Sample Condition				CHECKED BY: (Initials)				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				147				Please email results and copy of CoC to pm@etechenv.com.													



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. #:				<table border="1"> <tr><td>Chloride</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>TPH (8015M)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>BTEX (8021B)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>										Chloride																					TPH (8015M)																					BTEX (8021B)																				
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H7112280		FL 22 @ 3'		C	1	X				X			5/23/24		X	X	X																																																															
21																																																																																
<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: 5/23/24		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:		<p>RUSH SAMPLES - 48 HOUR 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.</p>																																																																				
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Delivered By: (Circle One) - UPS				Date: 5/23/24		Sample Condition				CHECKED BY: (Initials)																																																																						
Sampler - UPS - Bus - Other: #440						Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				<i>[Signature]</i>																																																																						



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

May 30, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLWMS RED BARON BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 05/24/24 14:45.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 6 @ 4' (H242921-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	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	32.0	16.0	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	207	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	191	95.5	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 23 @ 2' (H242921-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.7 % 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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 24 @ 2' (H242921-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	16.0	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 25 @ 2' (H242921-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	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	64.0	16.0	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.4 % 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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 26 @ 4' (H242921-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	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	32.0	16.0	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.3 % 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 27 @ 3' (H242921-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	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	112	16.0	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.8 % 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 28 @ 3' (H242921-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.8 % 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 29 @ 3' (H242921-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	16.0	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 30 @ 3' (H242921-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	224	16.0	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 71.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.8 % 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 31 @ 2' (H242921-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	16.0	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: NW 1 (H242921-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	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	48.0	16.0	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.9 % 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: NW 2 (H242921-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	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	48.0	16.0	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: NW 3 (H242921-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	48.0	16.0	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: NW 4 (H242921-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	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	64.0	16.0	05/29/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: SW 1 (H242921-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	ND					

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

Chloride, SM4500CI-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	05/30/2024	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	05/29/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.5 % 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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: SW 2 (H242921-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-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	05/30/2024	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	05/29/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: SW 3 (H242921-17)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/30/2024	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	05/29/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.8 % 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: EW 1 (H242921-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/30/2024	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	05/29/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 75.5 % 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/30/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: WW 1 (H242921-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.93	96.4	2.00	0.921	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.88	93.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.90	98.3	6.00	1.20	
Total BTEX	<0.300	0.300	05/29/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/30/2024	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	05/29/2024	ND	186	92.9	200	1.88	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	174	87.1	200	0.363	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 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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Celey D. Keene, Lab Director/Quality Manager



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

May 31, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLWMS RED BARON BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 05/28/24 14:56.

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 "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 32 @ 2' (H242950-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.77	88.5	2.00	0.256	
Toluene*	<0.050	0.050	05/30/2024	ND	1.78	89.0	2.00	1.74	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.82	91.0	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.23	87.1	6.00	2.56	
Total BTEX	<0.300	0.300	05/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 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	32.0	16.0	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	203	101	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	198	99.1	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 33 @ 2' (H242950-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	203	101	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	198	99.1	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 34 @ 2' (H242950-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500CI-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	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	203	101	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	198	99.1	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 35 @ 2' (H242950-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	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	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	203	101	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	198	99.1	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 36 @ 2' (H242950-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	203	101	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	198	99.1	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 37 @ 2' (H242950-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	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	80.0	16.0	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	203	101	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	198	99.1	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 38 @ 2' (H242950-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	203	101	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	198	99.1	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 39 @ 2' (H242950-08)

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	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	203	101	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	198	99.1	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 40 @ 2' (H242950-09)

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	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	203	101	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	198	99.1	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 41 @ 2' (H242950-10)

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	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500CI-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	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	203	101	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	198	99.1	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 42 @ 2' (H242950-11)

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	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	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	240	16.0	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 43 @ 2' (H242950-12)

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	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	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	112	16.0	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 44 @ 2' (H242950-13)

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	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	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	112	16.0	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 45 @ 3' (H242950-14)

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	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	05/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 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:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 46 @ 4' (H242950-15)

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	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	224	16.0	05/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 47 @ 4' (H242950-16)

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	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	192	16.0	05/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 48 @ 3' (H242950-17)

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	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	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	96.0	16.0	05/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 49 @ 3' (H242950-18)

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	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	05/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 50 @ 4' (H242950-19)

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	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	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	80.0	16.0	05/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/28/2024	Sampling Date:	05/28/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 51 @ 2' (H242950-20)

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	05/30/2024	ND	1.85	92.4	2.00	3.09	
Toluene*	<0.050	0.050	05/30/2024	ND	1.96	98.0	2.00	2.32	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	2.03	101	2.00	3.04	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.98	99.7	6.00	3.22	
Total BTEX	<0.300	0.300	05/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	160	16.0	05/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

June 03, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLWMS RED BARON BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 05/29/24 14:58.

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 "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 52 @ 1' (H242997-01)

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	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	128	16.0	05/31/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	211	106	200	0.871	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	212	106	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 53 @ 1' (H242997-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/31/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	211	106	200	0.871	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	212	106	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 54 @ 2' (H242997-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/31/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	211	106	200	0.871	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	212	106	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 55 @ 1' (H242997-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/31/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	211	106	200	0.871	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	212	106	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 56 @ 4' (H242997-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

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

Chloride, SM4500CI-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	05/31/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	211	106	200	0.871	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	212	106	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 57 @ 1' (H242997-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/31/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	188	94.2	200	2.49	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 58 @ 1' (H242997-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/31/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	188	94.2	200	2.49	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 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:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 59 @ 3' (H242997-08)

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	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	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	16.0	16.0	05/31/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	188	94.2	200	2.49	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 60 @ 3' (H242997-09)

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	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/31/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	188	94.2	200	2.49	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 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:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 61 @ 3' (H242997-10)

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	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	32.0	16.0	05/31/2024	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	05/30/2024	ND	188	94.2	200	2.49	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 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:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: NW 5 (H242997-11)

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	05/31/2024	ND	1.71	85.6	2.00	3.20		
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20		
Total BTEX	<0.300	0.300	05/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	144	16.0	05/31/2024	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	05/30/2024	ND	188	94.2	200	2.49		
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97		
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND						

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: NW 6 (H242997-12)

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	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	05/31/2024	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	05/30/2024	ND	188	94.2	200	2.49	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: EW 2 (H242997-13)

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	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	192	16.0	05/31/2024	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	05/30/2024	ND	188	94.2	200	2.49	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: EW 3 (H242997-14)

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	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	64.0	16.0	05/31/2024	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	05/30/2024	ND	188	94.2	200	2.49	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: EW 4 (H242997-15)

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	05/31/2024	ND	1.71	85.6	2.00	3.20		
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20		
Total BTEX	<0.300	0.300	05/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	05/31/2024	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	05/30/2024	ND	188	94.2	200	2.49		
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97		
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND						

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: EW 5 (H242997-16)

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	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	112	16.0	05/31/2024	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	05/30/2024	ND	188	94.2	200	2.49	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: SW 4 (H242997-17)

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	05/31/2024	ND	1.71	85.6	2.00	3.20	
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	05/31/2024	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	05/30/2024	ND	188	94.2	200	2.49	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 74.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: SW 5 (H242997-18)

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	05/31/2024	ND	1.71	85.6	2.00	3.20		
Toluene*	<0.050	0.050	05/31/2024	ND	1.75	87.7	2.00	3.45		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.72	86.2	2.00	3.40		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.44	90.7	6.00	3.20		
Total BTEX	<0.300	0.300	05/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	48.0	16.0	05/31/2024	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	05/30/2024	ND	188	94.2	200	2.49		
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97		
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND						

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.5 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: SW 6 (H242997-19)

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	05/31/2024	ND	1.87	93.4	2.00	2.35	
Toluene*	<0.050	0.050	05/31/2024	ND	1.98	99.2	2.00	2.40	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.97	98.6	2.00	2.74	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	6.09	102	6.00	2.15	
Total BTEX	<0.300	0.300	05/31/2024	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	48.0	16.0	06/03/2024	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	05/30/2024	ND	188	94.2	200	2.49	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	177	88.3	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

June 04, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLWMS RED BARON BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 05/30/24 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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" being more prominent than the last name "Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 62 @ 1' (H243036-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2024	ND	2.01	100	2.00	1.94	
Toluene*	<0.050	0.050	06/01/2024	ND	1.89	94.4	2.00	5.35	
Ethylbenzene*	<0.050	0.050	06/01/2024	ND	1.89	94.3	2.00	6.55	
Total Xylenes*	<0.150	0.150	06/01/2024	ND	5.55	92.5	6.00	6.42	
Total BTEX	<0.300	0.300	06/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	32.0	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	211	105	200	3.81	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	193	96.7	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 63 @ 1' (H243036-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	05/31/2024	ND	1.83	91.5	2.00	4.94	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.77	88.6	2.00	4.45	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.55	92.5	6.00	4.48	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	16.0	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	211	105	200	3.81	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	193	96.7	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 64 @ 1' (H243036-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	05/31/2024	ND	1.83	91.5	2.00	4.94	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.77	88.6	2.00	4.45	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.55	92.5	6.00	4.48	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	32.0	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	211	105	200	3.81	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	193	96.7	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 65 @ 1' (H243036-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	05/31/2024	ND	1.83	91.5	2.00	4.94	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.77	88.6	2.00	4.45	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.55	92.5	6.00	4.48	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	160	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	211	105	200	3.81	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	193	96.7	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 66 @ 1' (H243036-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	05/31/2024	ND	1.83	91.5	2.00	4.94	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.77	88.6	2.00	4.45	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.55	92.5	6.00	4.48	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	32.0	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	211	105	200	3.81	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	193	96.7	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 67 @ 1' (H243036-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	05/31/2024	ND	1.83	91.5	2.00	4.94	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.77	88.6	2.00	4.45	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.55	92.5	6.00	4.48	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	16.0	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2024	ND	211	105	200	3.81	
DRO >C10-C28*	<10.0	10.0	06/01/2024	ND	193	96.7	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	06/01/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 68 @ 1' (H243036-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	05/31/2024	ND	1.83	91.5	2.00	4.94	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.77	88.6	2.00	4.45	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.55	92.5	6.00	4.48	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	32.0	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	217	109	200	1.40	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	224	112	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 69 @ 1' (H243036-08)

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	05/31/2024	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	05/31/2024	ND	1.83	91.5	2.00	4.94	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.77	88.6	2.00	4.45	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.55	92.5	6.00	4.48	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	400	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	217	109	200	1.40	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	224	112	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 70 @ 1' (H243036-09)

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	05/31/2024	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	05/31/2024	ND	1.83	91.5	2.00	4.94	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.77	88.6	2.00	4.45	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.55	92.5	6.00	4.48	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	800	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	217	109	200	1.40	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	224	112	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 71 @ 1' (H243036-10)

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	05/31/2024	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	05/31/2024	ND	1.83	91.5	2.00	4.94	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.77	88.6	2.00	4.45	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.55	92.5	6.00	4.48	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	32.0	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	217	109	200	1.40	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	224	112	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 72 @ 1' (H243036-11)

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	05/31/2024	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	05/31/2024	ND	1.83	91.5	2.00	4.94	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.77	88.6	2.00	4.45	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.55	92.5	6.00	4.48	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	688	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	217	109	200	1.40	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	224	112	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 73 @ 1' (H243036-12)

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	05/31/2024	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	05/31/2024	ND	1.83	91.5	2.00	4.94	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.77	88.6	2.00	4.45	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.55	92.5	6.00	4.48	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	240	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	217	109	200	1.40	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	224	112	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 74 @ 1' (H243036-13)

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	05/31/2024	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	05/31/2024	ND	1.83	91.5	2.00	4.94	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.77	88.6	2.00	4.45	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.55	92.5	6.00	4.48	
Total BTEX	<0.300	0.300	05/31/2024	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	80.0	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	217	109	200	1.40	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	224	112	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/04/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 75 @ 1' (H243036-14)

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	05/31/2024	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	05/31/2024	ND	1.83	91.5	2.00	4.94	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.77	88.6	2.00	4.45	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.55	92.5	6.00	4.48	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	32.0	16.0	06/03/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	217	109	200	1.40	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	224	112	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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 style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																			
Address: 2617 West Marland				Company: Mewbourne																							
City: Hobbs		State: NM		Zip: 88240		Attn: Connor Walker																					
Phone #: (575) 264-9884		Fax #:		Address:																							
Project #: 20408		Project Owner: Mewbourne		City:																							
Project Name: SLWMS Red Baron Booster				State: NM														Zip:									
Project Location: 32.036734, -103.66888				Phone #:																							
Sampler Name: Martin Sepulveda				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													
4243036				C	1	X				X			5/30/24		X	X	X										
1		FL 62 @ 1'		C	1	X				X			5/30/24		X	X	X										
2		FL 63 @ 1'		C	1	X				X			5/30/24		X	X	X										
3		FL 64 @ 1'		C	1	X				X			5/30/24		X	X	X										
4		FL 65 @ 1'		C	1	X				X			5/30/24		X	X	X										
5		FL 66 @ 1'		C	1	X				X			5/30/24		X	X	X										
6		FL 67 @ 1'		C	1	X				X			5/30/24		X	X	X										
7		FL 68 @ 1'		C	1	X				X			5/30/24		X	X	X										
8		FL 69 @ 1'		C	1	X				X			5/30/24		X	X	X										
9		FL 70 @ 1'		C	1	X				X			5/30/24		X	X	X										
10		FL 71 @ 1'		C	1	X				X			5/30/24		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: 5/30/24		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:															
				Time: 1449						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:															
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:						Please email results and copy of CoC to pm@etechenv.com.																	
Delivered By: (Circle One)				Sample Condition		CHECKED BY:																					
Sampler - UPS - Bus - Other: #740				Cool: Intact		(Initials)																					
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																							
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																							



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

July 26, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLWMS RED BARON BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 05/31/24 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL 76 @ 4'	H243072-01	Soil	30-May-24 00:00	31-May-24 14:53
FL 77 @ 4'	H243072-02	Soil	30-May-24 00:00	31-May-24 14:53
FL 78 @ 1'	H243072-03	Soil	30-May-24 00:00	31-May-24 14:53
FL 79 @ 1'	H243072-04	Soil	30-May-24 00:00	31-May-24 14:53
FL 80 @ 1'	H243072-05	Soil	30-May-24 00:00	31-May-24 14:53
FL 81 @ 1'	H243072-06	Soil	30-May-24 00:00	31-May-24 14:53
FL 82 @ 1'	H243072-07	Soil	30-May-24 00:00	31-May-24 14:53
FL 83 @ 1'	H243072-08	Soil	30-May-24 00:00	31-May-24 14:53
FL 84 @ 1'	H243072-09	Soil	30-May-24 00:00	31-May-24 14:53
FL 85 @ 1'	H243072-10	Soil	30-May-24 00:00	31-May-24 14:53
EW 6	H243072-11	Soil	30-May-24 00:00	31-May-24 14:53
EW 7	H243072-12	Soil	30-May-24 00:00	31-May-24 14:53
EW 8	H243072-13	Soil	30-May-24 00:00	31-May-24 14:53
EW 9	H243072-14	Soil	30-May-24 00:00	31-May-24 14:53
SW 7	H243072-15	Soil	30-May-24 00:00	31-May-24 14:53
SW 8	H243072-16	Soil	30-May-24 00:00	31-May-24 14:53
NW 7	H243072-17	Soil	30-May-24 00:00	31-May-24 14:53
WW 2	H243072-18	Soil	30-May-24 00:00	31-May-24 14:53
WW 3	H243072-19	Soil	30-May-24 00:00	31-May-24 14:53
WW 4	H243072-20	Soil	30-May-24 00:00	31-May-24 14:53
WW 5	H243072-21	Soil	30-May-24 00:00	31-May-24 14:53

07/26/24 - Client changed the sample IDs for -18 thru -21 (see COC). This is the revised report and will replace the one sent on 06/05/24.

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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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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FL 76 @ 4'
H243072-01 (Soil)

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

Inorganic Compounds

Chloride	560		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060334	JH	04-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		4060334	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	

Surrogate: 1-Chlorooctane			116 %	48.2-134		4060305	MS	03-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			123 %	49.1-148		4060305	MS	03-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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FL 77 @ 4'
H243072-02 (Soil)

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

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060334	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		4060334	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			124 %	48.2-134		4060305	MS	03-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			132 %	49.1-148		4060305	MS	03-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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FL 78 @ 1'
H243072-03 (Soil)

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

Inorganic Compounds

Chloride	944		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060334	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		4060334	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			128 %	48.2-134		4060305	MS	03-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			138 %	49.1-148		4060305	MS	03-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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FL 79 @ 1'
H243072-04 (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	4060433	AC	04-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060334	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	71.5-134		4060334	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			113 %	48.2-134		4060305	MS	03-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			120 %	49.1-148		4060305	MS	03-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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FL 80 @ 1'
H243072-05 (Soil)

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

Inorganic Compounds

Chloride	400		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060334	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		4060334	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			127 %	48.2-134		4060305	MS	03-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			136 %	49.1-148		4060305	MS	03-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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**FL 81 @ 1'
H243072-06 (Soil)**

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060334	JH	04-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		4060334	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060305	MS	03-Jun-24	8015B	

Surrogate: 1-Chlorooctane			119 %	48.2-134		4060305	MS	03-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			126 %	49.1-148		4060305	MS	03-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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FL 82 @ 1'
H243072-07 (Soil)

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

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060334	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		4060334	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			106 %	48.2-134		4060315	MS	04-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %	49.1-148		4060315	MS	04-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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**FL 83 @ 1'
H243072-08 (Soil)**

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060334	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		4060334	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			101 %	48.2-134		4060315	MS	04-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.8 %	49.1-148		4060315	MS	04-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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FL 84 @ 1'
H243072-09 (Soil)

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060334	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		4060334	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			101 %	48.2-134		4060315	MS	04-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.0 %	49.1-148		4060315	MS	04-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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**FL 85 @ 1'
H243072-10 (Soil)**

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

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060334	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	71.5-134		4060334	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			100 %	48.2-134		4060315	MS	04-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.4 %	49.1-148		4060315	MS	04-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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**EW 6
H243072-11 (Soil)**

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

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060334	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		4060334	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.5 %	48.2-134		4060315	MS	04-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.6 %	49.1-148		4060315	MS	04-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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EW 7

H243072-12 (Soil)

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

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060334	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060334	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		4060334	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.6 %	48.2-134		4060315	MS	04-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.4 %	49.1-148		4060315	MS	04-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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**EW 8
H243072-13 (Soil)**

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

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060335	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.8 %		71.5-134	4060335	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			75.4 %		48.2-134	4060315	MS	04-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			72.2 %		49.1-148	4060315	MS	04-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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EW 9

H243072-14 (Soil)

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060335	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.8 %		71.5-134	4060335	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.9 %		48.2-134	4060315	MS	04-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.5 %		49.1-148	4060315	MS	04-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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**SW 7
H243072-15 (Soil)**

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060335	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.0 %	71.5-134		4060335	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.3 %	48.2-134		4060315	MS	04-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			83.2 %	49.1-148		4060315	MS	04-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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**SW 8
H243072-16 (Soil)**

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060335	JH	04-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.4 %		71.5-134	4060335	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

Surrogate: 1-Chlorooctane			86.7 %		48.2-134	4060315	MS	04-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			84.7 %		49.1-148	4060315	MS	04-Jun-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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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**NW 7
H243072-17 (Soil)**

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

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060335	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.0 %	71.5-134		4060335	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	05-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	05-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	05-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			134 %	48.2-134		4060315	MS	05-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			144 %	49.1-148		4060315	MS	05-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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**WW 2
H243072-18 (Soil)**

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060335	JH	04-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.4 %		71.5-134	4060335	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

Surrogate: 1-Chlorooctane			66.3 %		48.2-134	4060315	MS	04-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			61.4 %		49.1-148	4060315	MS	04-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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**WW 3
H243072-19 (Soil)**

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4060433	AC	04-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060335	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.1 %		71.5-134	4060335	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			59.4 %		48.2-134	4060315	MS	04-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			53.8 %		49.1-148	4060315	MS	04-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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**WW 4
H243072-20 (Soil)**

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4060421	HM	04-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060335	JH	04-Jun-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.7 %		71.5-134	4060335	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			53.9 %		48.2-134	4060315	MS	04-Jun-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			50.4 %		49.1-148	4060315	MS	04-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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**WW 5
H243072-21 (Soil)**

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

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	4060421	HM	04-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4060335	JH	04-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4060335	JH	04-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.4 %	71.5-134		4060335	JH	04-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4060315	MS	04-Jun-24	8015B	

Surrogate: 1-Chlorooctane			79.1 %	48.2-134		4060315	MS	04-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			75.4 %	49.1-148		4060315	MS	04-Jun-24	8015B	
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4060421 - 1:4 DI Water										
Blank (4060421-BLK1) Prepared & Analyzed: 04-Jun-24										
Chloride	ND	16.0	mg/kg							
LCS (4060421-BS1) Prepared & Analyzed: 04-Jun-24										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (4060421-BSD1) Prepared & Analyzed: 04-Jun-24										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 4060433 - 1:4 DI Water										
Blank (4060433-BLK1) Prepared & Analyzed: 04-Jun-24										
Chloride	ND	16.0	mg/kg							
LCS (4060433-BS1) Prepared & Analyzed: 04-Jun-24										
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4060433-BSD1) Prepared & Analyzed: 04-Jun-24										
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	

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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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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 4060334 - Volatiles

Blank (4060334-BLK1)

Prepared: 03-Jun-24 Analyzed: 04-Jun-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)	0.0528		mg/kg	0.0500		106	71.5-134			

LCS (4060334-BS1)

Prepared: 03-Jun-24 Analyzed: 04-Jun-24

Benzene	2.03	0.050	mg/kg	2.00		102	82.8-130			
Toluene	2.18	0.050	mg/kg	2.00		109	86-128			
Ethylbenzene	2.19	0.050	mg/kg	2.00		109	85.9-128			
m,p-Xylene	4.55	0.100	mg/kg	4.00		114	89-129			
o-Xylene	2.16	0.050	mg/kg	2.00		108	86.1-125			
Total Xylenes	6.72	0.150	mg/kg	6.00		112	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	71.5-134			

LCS Dup (4060334-BSD1)

Prepared: 03-Jun-24 Analyzed: 04-Jun-24

Benzene	2.19	0.050	mg/kg	2.00		109	82.8-130	7.28	15.8	
Toluene	2.31	0.050	mg/kg	2.00		116	86-128	5.61	15.9	
Ethylbenzene	2.28	0.050	mg/kg	2.00		114	85.9-128	4.22	16	
m,p-Xylene	4.72	0.100	mg/kg	4.00		118	89-129	3.56	16.2	
o-Xylene	2.26	0.050	mg/kg	2.00		113	86.1-125	4.56	16.7	
Total Xylenes	6.98	0.150	mg/kg	6.00		116	88.2-128	3.88	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0504		mg/kg	0.0500		101	71.5-134			

Batch 4060335 - Volatiles

Blank (4060335-BLK1)

Prepared: 03-Jun-24 Analyzed: 04-Jun-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							

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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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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 4060335 - Volatiles

Blank (4060335-BLK1)

Prepared: 03-Jun-24 Analyzed: 04-Jun-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		97.7	71.5-134			

LCS (4060335-BS1)

Prepared: 03-Jun-24 Analyzed: 04-Jun-24

Benzene	2.03	0.050	mg/kg	2.00		102	82.8-130			
Toluene	2.02	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.7	85.9-128			
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.5	89-129			
o-Xylene	2.13	0.050	mg/kg	2.00		106	86.1-125			
Total Xylenes	5.99	0.150	mg/kg	6.00		99.8	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0488		mg/kg	0.0500		97.6	71.5-134			

LCS Dup (4060335-BSD1)

Prepared: 03-Jun-24 Analyzed: 04-Jun-24

Benzene	1.96	0.050	mg/kg	2.00		98.1	82.8-130	3.54	15.8	
Toluene	1.92	0.050	mg/kg	2.00		96.2	86-128	4.73	15.9	
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.2	85.9-128	5.78	16	
m,p-Xylene	3.64	0.100	mg/kg	4.00		90.9	89-129	5.98	16.2	
o-Xylene	2.00	0.050	mg/kg	2.00		100	86.1-125	6.10	16.7	
Total Xylenes	5.64	0.150	mg/kg	6.00		94.0	88.2-128	6.02	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0484		mg/kg	0.0500		96.8	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: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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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 4060305 - General Prep - Organics

Blank (4060305-BLK1)		Prepared & Analyzed: 03-Jun-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	53.2		mg/kg	50.0		106	48.2-134			
Surrogate: 1-Chlorooctadecane	58.4		mg/kg	50.0		117	49.1-148			

LCS (4060305-BS1)		Prepared & Analyzed: 03-Jun-24								
GRO C6-C10	219	10.0	mg/kg	200		109	66.4-123			
DRO >C10-C28	223	10.0	mg/kg	200		112	66.5-118			
Total TPH C6-C28	442	10.0	mg/kg	400		111	77.6-123			
Surrogate: 1-Chlorooctane	57.9		mg/kg	50.0		116	48.2-134			
Surrogate: 1-Chlorooctadecane	61.1		mg/kg	50.0		122	49.1-148			

LCS Dup (4060305-BSD1)		Prepared & Analyzed: 03-Jun-24								
GRO C6-C10	216	10.0	mg/kg	200		108	66.4-123	1.11	17.7	
DRO >C10-C28	214	10.0	mg/kg	200		107	66.5-118	4.17	21	
Total TPH C6-C28	431	10.0	mg/kg	400		108	77.6-123	2.64	18.5	
Surrogate: 1-Chlorooctane	59.2		mg/kg	50.0		118	48.2-134			
Surrogate: 1-Chlorooctadecane	63.2		mg/kg	50.0		126	49.1-148			

Batch 4060315 - General Prep - Organics

Blank (4060315-BLK1)		Prepared: 03-Jun-24 Analyzed: 04-Jun-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	51.8		mg/kg	50.0		104	48.2-134			
Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0		103	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 2617 W MARLAND HOBBS NM, 88240	Project: SLWMS RED BARON BOOSTER Project Number: 20408 Project Manager: LANCE CRENSHAW Fax To:	Reported: 26-Jul-24 16:23
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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 4060315 - General Prep - Organics

LCS (4060315-BS1)

Prepared: 03-Jun-24 Analyzed: 04-Jun-24

GRO C6-C10	213	10.0	mg/kg	200		106	66.4-123			
DRO >C10-C28	206	10.0	mg/kg	200		103	66.5-118			
Total TPH C6-C28	418	10.0	mg/kg	400		105	77.6-123			
Surrogate: 1-Chlorooctane	56.4		mg/kg	50.0		113	48.2-134			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	49.1-148			

LCS Dup (4060315-BSD1)

Prepared: 03-Jun-24 Analyzed: 04-Jun-24

GRO C6-C10	212	10.0	mg/kg	200		106	66.4-123	0.136	17.7	
DRO >C10-C28	211	10.0	mg/kg	200		106	66.5-118	2.65	21	
Total TPH C6-C28	424	10.0	mg/kg	400		106	77.6-123	1.24	18.5	
Surrogate: 1-Chlorooctane	57.6		mg/kg	50.0		115	48.2-134			
Surrogate: 1-Chlorooctadecane	57.0		mg/kg	50.0		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

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



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. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																						
Address: 2617 West Marland		Company: Mewbourne																										
City: Hobbs State: NM Zip: 88240		Attn: Connor Walker																										
Phone #: (575) 264-9884 Fax #:		Address:																										
Project #: 20408 Project Owner: Mewbourne		City:																										
Project Name: SLWMS Red Baron Booster		State: NM Zip:																										
Project Location: 32.036734, -103.66888		Phone #:																										
Sampler Name: Martin Sepulveda		Fax #:																										
FOR LAB USE ONLY																												
Lab I.D.	Sample I.D.	(G/RAB OR (COMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING																	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
H243072 21	WW95 *	C 1			X					X		5/30/24		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:		Date: 5-31-24	Received By:		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: *Customer requested ID changes. 7/26/24															
Relinquished By:		Date:	Received By:		Please email results and copy of CoC to pm@etechenv.com.																							
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)																								
Sampler - UPS - Bus - Other: 140		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		AP																								



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

June 12, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLWMS RED BARON BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 06/11/24 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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2024	Sampling Date:	06/11/2024
Reported:	06/12/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 70 @ 2' (H243362-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	1.91	95.6	2.00	3.36	
Toluene*	<0.050	0.050	06/12/2024	ND	1.93	96.6	2.00	3.37	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.83	91.4	2.00	3.53	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.67	94.6	6.00	3.66	
Total BTEX	<0.300	0.300	06/12/2024	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	80.0	16.0	06/12/2024	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	06/12/2024	ND	182	91.1	200	1.47	
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	188	94.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	06/11/2024	Sampling Date:	06/11/2024
Reported:	06/12/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 72 @ 2' (H243362-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	1.91	95.6	2.00	3.36	
Toluene*	<0.050	0.050	06/12/2024	ND	1.93	96.6	2.00	3.37	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.83	91.4	2.00	3.53	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.67	94.6	6.00	3.66	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	06/12/2024	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	06/12/2024	ND	182	91.1	200	1.47	
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	188	94.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	06/11/2024	Sampling Date:	06/11/2024
Reported:	06/12/2024	Sampling Type:	Soil
Project Name:	SLWMS RED BARON BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20408	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.036734,-103.66888		

Sample ID: FL 78 @ 2' (H243362-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	1.91	95.6	2.00	3.36	
Toluene*	<0.050	0.050	06/12/2024	ND	1.93	96.6	2.00	3.37	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.83	91.4	2.00	3.53	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.67	94.6	6.00	3.66	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	96.0	16.0	06/12/2024	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	06/12/2024	ND	182	91.1	200	1.47	
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	188	94.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

May 22, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ALLIED STATE 1

Enclosed are the results of analyses for samples received by the laboratory on 05/16/24 15:37.

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.

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:	05/16/2024	Sampling Date:	05/15/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	ALLIED STATE 1	Sampling Condition:	Cool & Intact
Project Number:	19911	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.31731, -104.2755		

Sample ID: R360 WEST PIT (H242728-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2024	ND	2.12	106	2.00	1.92	
Toluene*	<0.050	0.050	05/18/2024	ND	2.03	102	2.00	2.09	
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	2.05	102	2.00	2.18	
Total Xylenes*	<0.150	0.150	05/18/2024	ND	5.84	97.4	6.00	2.22	
Total BTEX	<0.300	0.300	05/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 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	272	16.0	05/20/2024	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	05/17/2024	ND	188	94.1	200	1.63	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	203	102	200	0.0320	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 53.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.9 % 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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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST																	
Project Manager: Joel Lowry		P.O. #:		Chloride	TPH (8015M)	BTEX (8021B)															
Address: 2617 West Marland		Company: Permian Resources																			
City: Hobbs State: NM Zip: 88240		Attn: Montgomery Floyd																			
Phone #: (575) 264-9884 Fax #:		Address:																			
Project #: 19911 Project Owner: Permian Resources		City:																			
Project Name: Allied State #001		State: Zip:																			
Project Location: 32.31731, -104.2755		Phone #:																			
Sampler Name: Tania Felts		Fax #:																			

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			SAMPLING		DATE	TIME	X	X	X
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :							
H202178	R360 West Pit	C	1			X					X			5/15/24		X	X	X	

DISCLAIMER 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: 	Date: 5/10/24 Time: 1:58	Received By: 	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) Sampler - UPS - Bus - Other: #140	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 	REMARKS: Please email copy of COC and results to pm@etechenv.com.

Appendix E

Regulatory Correspondence

From: [Connor Walker](#)
To: [Lance Crenshaw](#); [Ben Arguijo](#)
Subject: FW: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 345651
Date: Monday, May 20, 2024 9:51:05 AM

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, May 20, 2024 8:50 AM
To: Connor Walker <cwalker@mewbourne.com>
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 345651

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#) nAPP2414129527.

The sampling event is expected to take place:

When: 05/23/2024 @ 08:00
Where: M-15-26S-32E 0 FNL 0 FEL (32.0365319,-103.6692761)

Additional Information: Sample Tech: Martin Sepulveda

Phone: 432-305-7322, martins@etechnv.com

Additional Instructions: Samples will begin being taken on 5/23, 5/24, 5/27, 5/28, 5/29, 5/30, and 5/31. if necessary, another notification will be sent.

From the intersection of J-2 and Orla Rd (32.026101, -103.701503), head N on Orla Rd for 1.03 mi, then SE for 0.11 mi, then E for 1.06 mi, then SE for 0.21 mi, then E for 0.08 mi, then N onto the right-of-way for 0.11 mi, then E for 0.02 mi to arrive at the SLWMS Red Baron Booster release area (32.036720, -103.669001).

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: [Connor Walker](#)
To: [Lance Crenshaw](#); [Ben Arguijo](#)
Subject: FW: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 351599
Date: Thursday, June 6, 2024 2:54:24 PM

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, June 6, 2024 1:53 PM
To: Connor Walker <cwalker@mewbourne.com>
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 351599

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#) nAPP2414129527.

The sampling event is expected to take place:

When: 06/11/2024 @ 08:00

Where: M-15-26S-32E 0 FNL 0 FEL (32.0365319,-103.6692761)

Additional Information: Sample Tech: Martin Sepulveda

Phone: 432-305-7322, martins@etechenv.com

Additional Instructions: From the intersection of J-2 and Orla Rd (32.026101, -103.701503), head N on Orla Rd for 1.03 mi, then SE for 0.11 mi, then E for 1.06 mi, then SE for 0.21 mi, then E for 0.08 mi, then N onto the right-of-way for 0.11 mi, then E for 0.02 mi to arrive at the SLWMS Red Baron Booster release area (32.036720, -103.669001).

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

Appendix F
NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155561

HPD Log No(s).

Registration

Lead Agency: US Bureau of Land Management Carlsbad Field Office

Performing Agency: SWCA Environmental Consultants

Activity ID: 89924

Performing Agency Report No: 24-372

Other Agencies:

Report Recipient (Your Client): eTech Environmental & Safety Solutions

- Activity Types:**
- Research Design Archaeological Survey/Inventory
 - Architectural Survey/Inventory Test Excavation Monitoring
 - Collections/Non-Field Study Compliance Decision
 - Literature Review Overview Excavation Ethnographic Study
 - Resource/Property Visit Historic Structures Report
 - Other:

Total Survey Acreage: 5.55

Total Tribal Acreage: 0.00

Total Resources Visited: 0

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155561

HPD Log No(s).

Associate/Register Resources

Prefix	Number	Field Site/Other Number	In GIS	Resource Type	Collections Made?	Revisit
--------	--------	-------------------------	--------	---------------	-------------------	---------

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155561

HPD Log No(s).

Report Details

Type of Report

Type of Report: Negative

Lead Agency

Lead Agency: US Bureau of Land Management Carlsbad Field Office

Lead Agency Report No.

Report Number:

Title of Report

Title of Report: A Class III Cultural Resources Inventory of Mewbourne's SLWMS Red Baron Booster Inadvertent Pipeline Release Remediation Project in Lea County, New Mexico

Authors: Cory Green and Ad A. Muniz

Publication Type: Report, Monograph, or Book

Description of Undertaking (what does the project entail?)

Description: ETech Environmental & Safety Solutions contracted SWCA Environmental Consultants (SWCA) to conduct an intensive cultural resources pedestrian survey in support of Mewbourne Oil Company's (Mewbourne) SLWMS Red Baron Booster inadvertent release remediation project in Lea County, New Mexico. The remediation process will require removing impacted sediments from the contaminated area and replacing them with clean soil. The inadvertent release covers approximately 0.66 acres (0.27 ha) with the full remediation footprint covering 5.55 acres (2.24 ha). The inadvertent release is located approximately 51.9 miles (83.5 km) southeast of Malaga, New Mexico on lands managed by the Bureau of Land Management (BLM) Carlsbad Field Office (CFO). The BLM CFO will serve as the lead agency.

Dates of Investigation

From: 10-May-2024 **To:** 10-May-2024

Report Date

Report Date: 17-May-2024

Performing Agency/Consultant

Name: SWCA Environmental Consultants

Principal Investigator: Alissa K. Healy

Field Supervisor: Ad Muniz

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155561

HPD Log No(s).

Report Details

Field Personnel Names: N/A

Historian/Other N/A

Performing Agency Report Number

Report Number: 24-372

Client/Customer (project proponent)

Name: eTech Environmental & Safety Solutions

Contact: Lance Crenshaw

Address: 13000 WCR 100, Odessa Texas, 79765

Phone 575-631-1064

Client/Customer Project Number

Project Number: N/A

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155561

HPD Log No(s).

Ownership & Location

Land Ownership Status (Must be indicated on Project Map)

Owner/Manager List:

Land Owner/Manager	Protocol	Acres Surveyed	Acres in APE
US Bureau of Land Management Carlsbad Field Office	Class III	5.55	5.55

Total Survey Acreage: 5.55

Total Tribal Acreage: 0.00

Record Search(es)

Date of HPD/ARMS File Review: 06-May-2024

Date of Other Agency File Review 07-May-2024

Survey Data

Source Graphics: NAD 83

- USGS 7.5' (1:24,000) topo map
 Other Topo Map Scale: _____
 GPS Unit <1M
 Aerial Photos Other Source Graphic(s): _____

The following tables (b,c,& e) are calculated by the NMCRIS Map Service

USGS 7.5' Topographic County(ies) Legal Description
Map(s)

Map Name	USGS Quad Code	County	FIPS	Unplatted	Township (N/S)	Range (E/W)	Section
Paduca Breaks West, NM	32103-A6	LEA	35023	No	T26S	R32E	15
				No	T26S	R32E	22

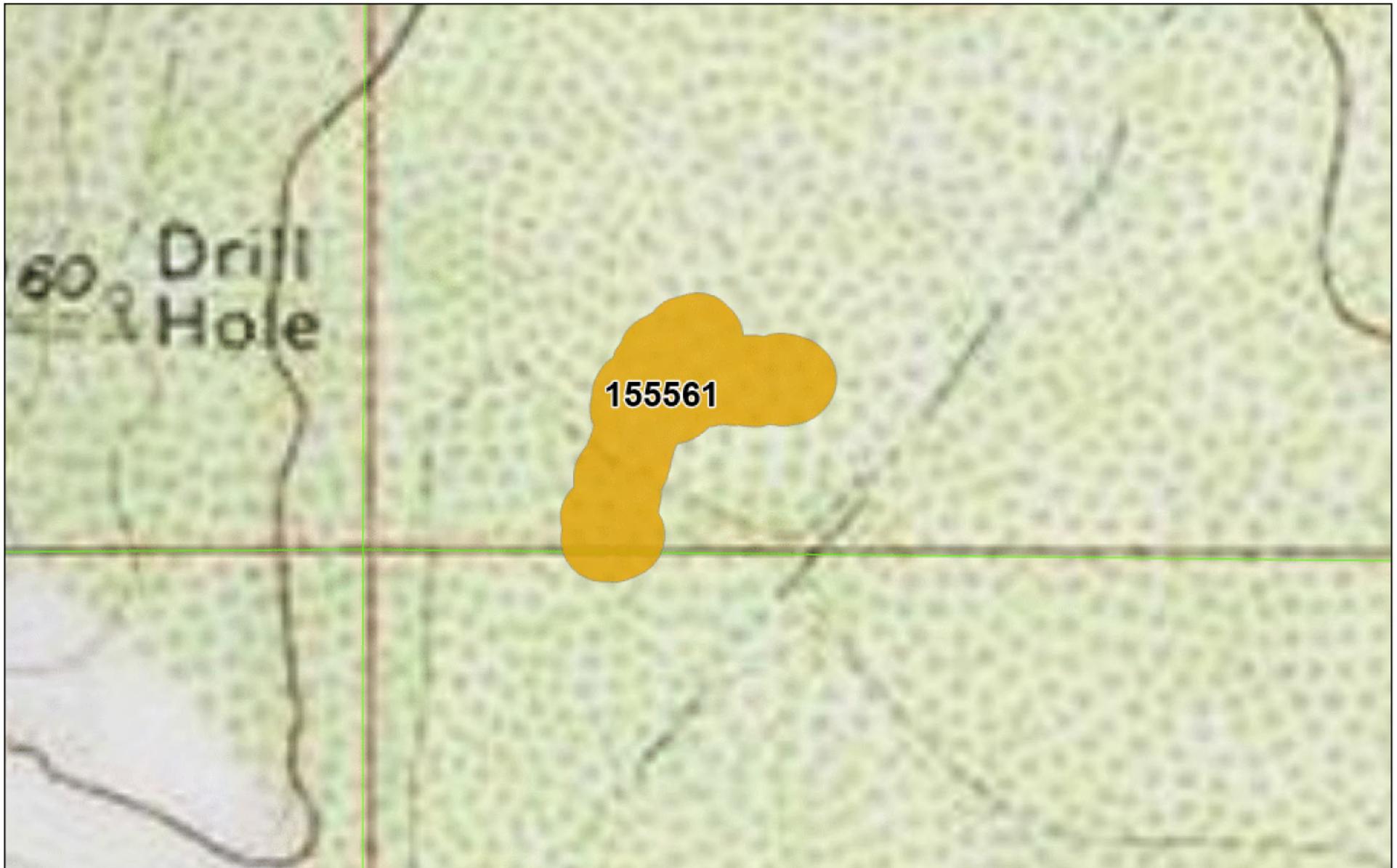
Projected Legal Description

No

Nearest City or Town: Malaga, NM

Other Description:

NMCRIS No: 155561



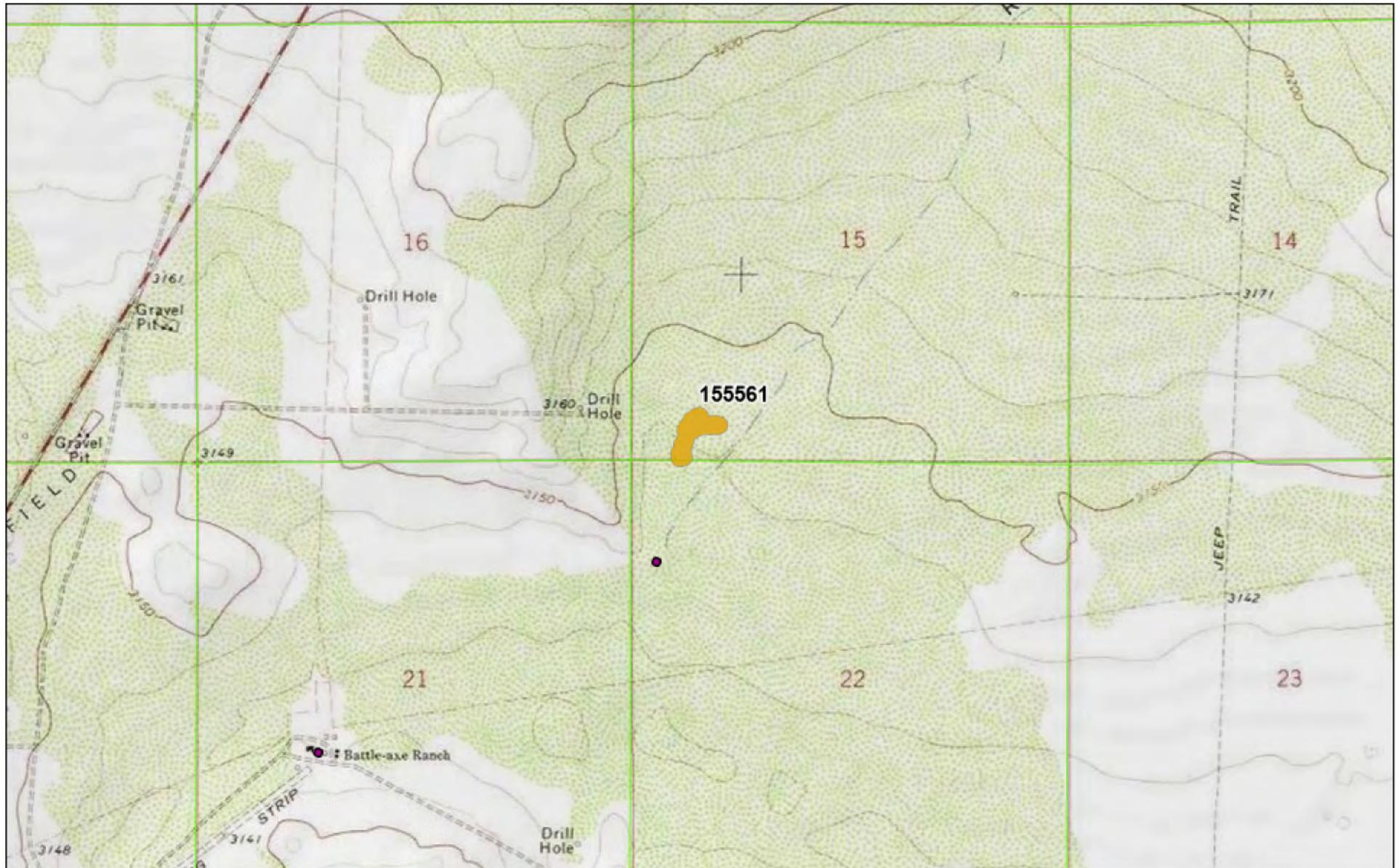
5/20/2024, 1:10:18 PM

Archaeological Surveys

 Proposed

1:4,933
0 0.04 0.07 0.14 mi
0 0.05 0.1 0.2 km
Copyright © 2013 National Geographic Society, I-cubed

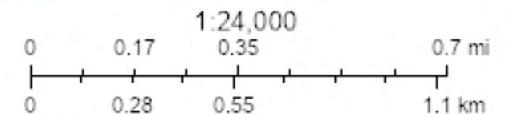
NMCRIS No: 155561



5/20/2024, 1:10:18 PM

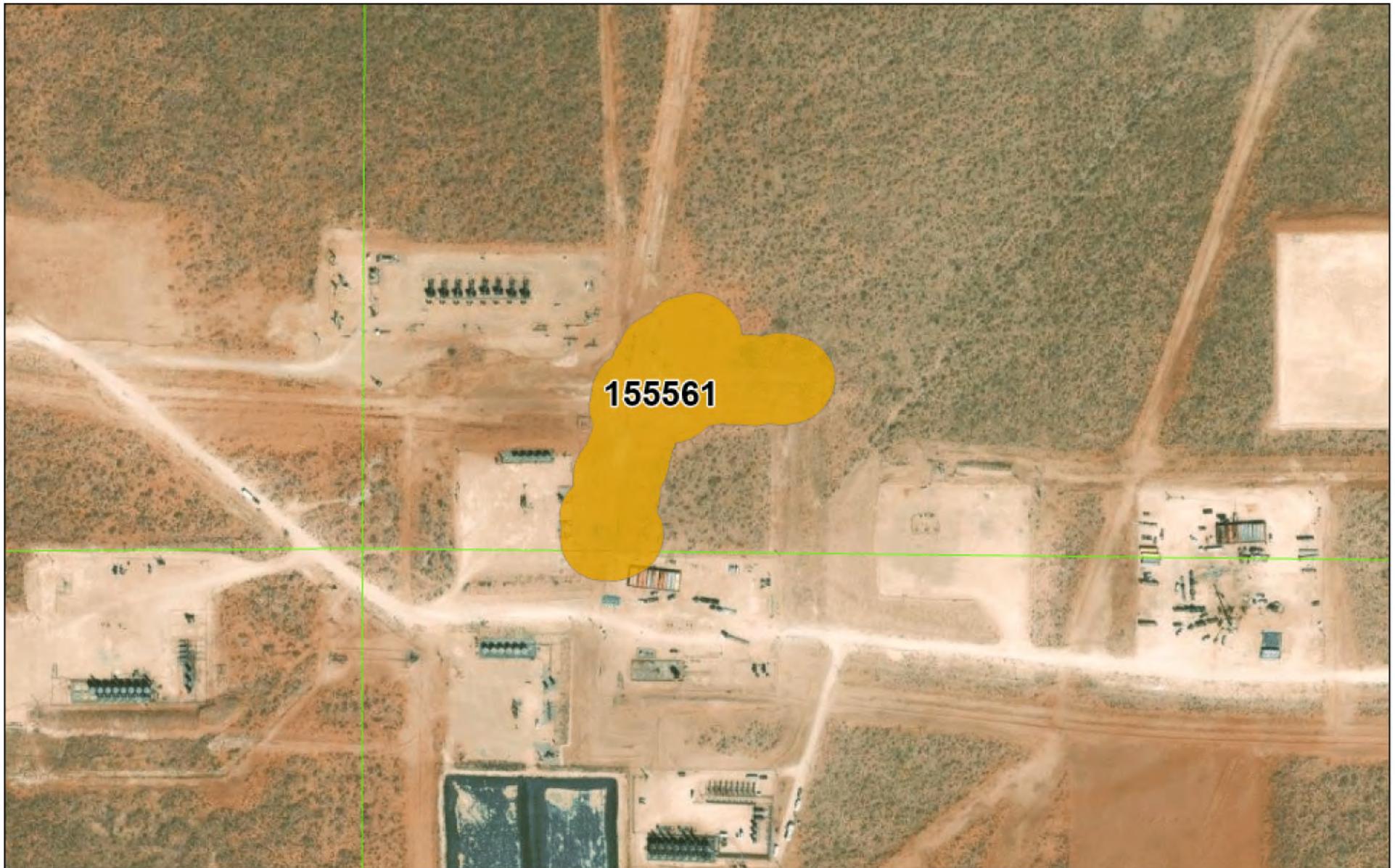
Archaeological Surveys

 Proposed



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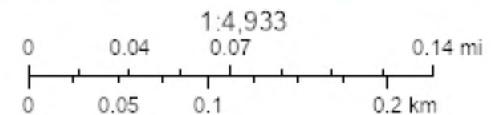
NMCRIS No: 155561



5/20/2024, 1:10:18 PM

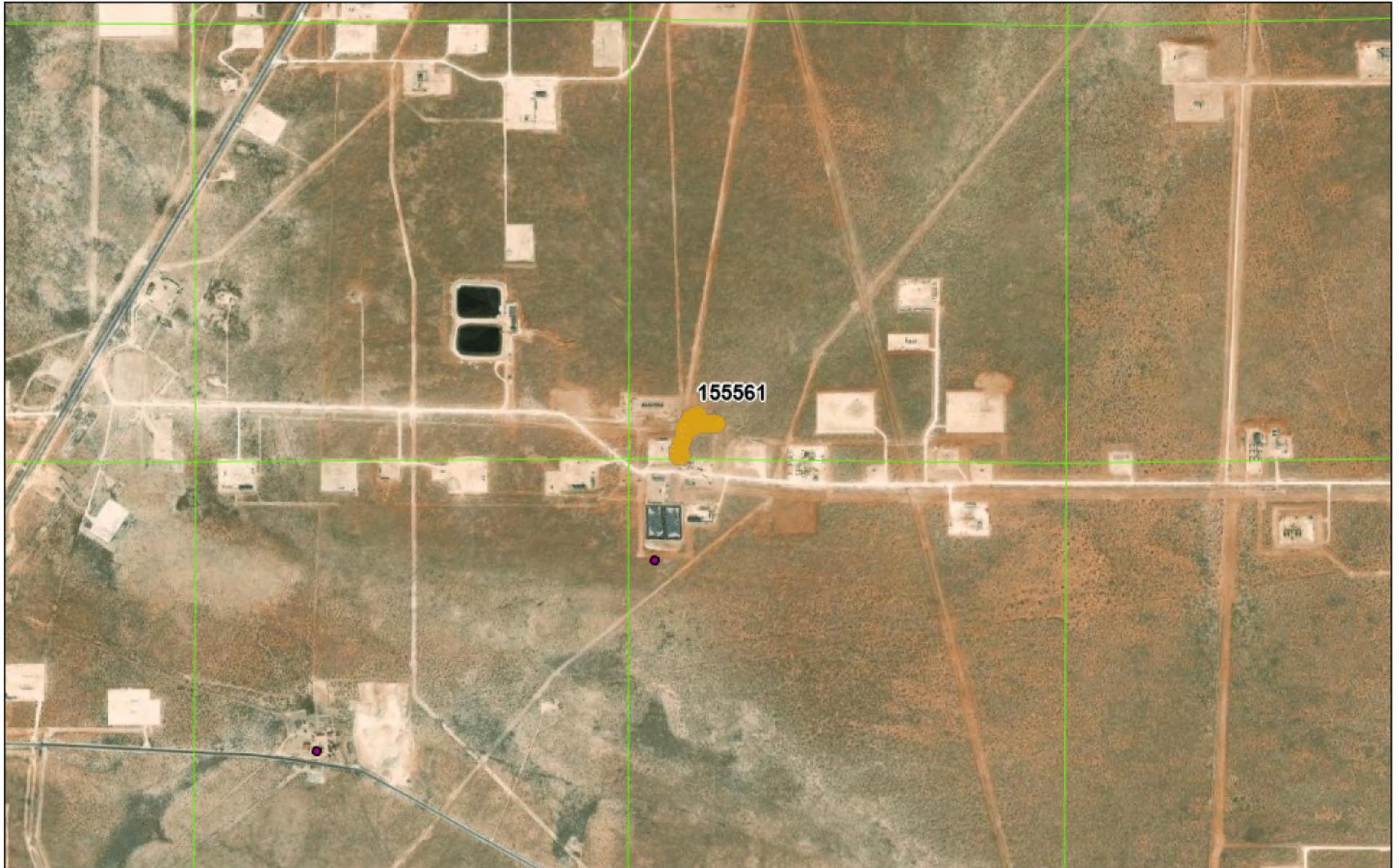
Archaeological Surveys

 Proposed



Maxar

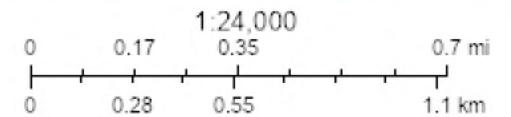
NMCRIS No: 155561



5/20/2024, 1:10:18 PM

Archaeological Surveys

 Proposed



Maxar

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155561

HPD Log No(s).

Methodology

Survey Field Methods

Intensity: 100% coverage

Configuration: Block Survey Units Linear Survey Units (l x y)

Other Survey Units

Scope: All Resources

Coverage Method: Systematic Pedestrian Coverage **Other Method:**

Survey Interval (m): 15 **Crew Size** 1

Fieldwork Dates **From** 10-May-2024 **To** 10-May-2024

Survey Person Hours: 1.75 **Recording Person Hours** 0.00

Additional Narrative: SWCA surveyed a 100 feet (30 m) buffer from the edge of the inadvertent release for remediation activities which resulted in a survey area of 5.55 acres (2.24 ha). The proposed area contains some previous survey coverage; however, because a previously recorded site is present near the edge of the proposed remediation footprint, the BLM CFO requested areas outside the well pads be surveyed. The well pads areas were small so the entire footprint was surveyed.

Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.)

Environmental Setting: The survey area is within the Chihuahuan Deserts (24): Chihuahuan Basins and Playas (24a) ecoregion (Griffith et al 2006). The physiography of the region is generally characterized by a basin and range terrain and alternating pattern of mountains and valleys along with alluvial fans, internally drained basins, and river valleys (Griffith et al 2006). The elevation of the survey area is 3,147 feet (959 m) above mean sea level. Vegetation can include creosotebush, tarbush, fourwing saltbush, acacia, gyp grama, and alkali sacaton (Griffith et al 2006; Whitehead and Flynn 2017). Plants observed during the survey include an understory of croton, snakeweed, mesquite, and various other grasses and forbs. Mesquite was an important resource for prehistoric peoples in the area. Many of the other typical grasses and plants were prehistorically collected for both subsistence and non-subsistence use.

Wildlife includes jackrabbits, armadillo, foxes, coyote, mountain lion, pronghorn, bison, mule deer, and mice (Biota Information System of New Mexico 2024). Bison, pronghorn, mule deer, and rabbits were all important resources prehistorically.

The geology of the survey area consists of eolian deposits (Qe) (Holocene to middle Pleistocene) and Piedmont alluvial deposits (Qp) (Holocene to lower Pleistocene that includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slop, and alluvial fans. One soil type occurs within the survey area:

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155561

HPD Log No(s).

Methodology

Pyote soils and dune land (Natural Resources Conservation Service 2024).

The climate information for the survey area was compiled using the Carlsbad, New Mexico (291469) climate station data (period of record February 1, 1900, to June 10, 2016). Rainfall for the general area is most abundant from May through October, averaging 24.86 cm (9.79 inches) with September having the heaviest average precipitation. Snowfall is expectedly heaviest in December and January and can fall from December to March; annual snowfall average is 8.89 cm (1.13 inch). Temperatures are coldest in January at -2.2 degrees Celsius (°C) (27.8 degrees Fahrenheit [°F]) and warmest in July at 35.7°C (95.6 °F) (Western Regional Climate Center 2024).

Biota Information System of New Mexico

2024 Database query for Lea County. Available at: <http://www.bison-m.org/>. Accessed May 15, 2024.

Griffith, Glen E., James M. Omernik, Maryann M. McGraw, Gerald Z. Jacobi, Christopher M. Canavan, T. Scott Schrader, David Mercer, Robert Hill, and Brian C. Moran
2006 Ecoregions of New Mexico. Color poster with map, descriptive text, summary tables, and photographs. Scale 1:1,400,000. Reston, Virginia: U.S. Geological Survey.

Natural Resources Conservation Service

2024 Web Soil Survey. Available at:
<http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>.
Accessed May 15, 2024.

Western Regional Climate Center

2024 Climate summary for Carlsbad, New Mexico (291469). Available at:
<https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?nm1469>. Accessed
May 15, 2024.

Whitehead, William, and Conor Flynn

2017 Plant Utilization in Southeastern New Mexico: Botany, Ethnobotany, and
Archaeology. Bureau of Land Management,
Carlsbad Field Office, New Mexico.

Percent Ground Visibility

Ground Visibility: 51-75%

Condition of Survey Area: The ground surface is heavily disturbed by oil and gas activities. Above ground pipelines/utilities, graded roads and surface valve stations are all present within the survey area. Small portions of the survey area intersect with well pads located within the southern boundary.

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155561

HPD Log No(s).

Methodology

Attachments (check all appropriate boxes)

- USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required)
- Copy of NMCRIS Map Check (required)
- LA Site Forms - new sites (with sketch map & topographic map) if applicable
- LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum)
- Historic Cultural Property Inventory Forms, if applicable
- List and Description of Isolates, if applicable
- List and Description of Collections, if applicable

Other Attachments

- Photographs and Log
- Other attachments **Describe:** BLM CFO Fieldwork Authorization Form

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155561

HPD Log No(s).

Cultural Resource Findings

Investigation Results

Archaeological Sites Discovered and Registered: 0

Archaeological Sites Discovered and NOT Registered: 0

Previously Recorded Archaeological Sites Revisited (site update form required): 0

Previously Recorded Archaeological Sites Not Relocated (site update form required): 0

Total Archaeological Sites (visited & recorded): 0

Total Isolates Recorded: 0

Non-Selective Isolate Recording

HCPI Properties Discovered and Registered: 0

HCPI Properties Discovered And NOT Registered: 0

Previously Recorded HCPI Properties Revisited: 0

Previously Recorded HCPI Properties NOT Relocated: 0

Total HCPI Properties (visited & recorded, including acequias): 0

If No Cultural Resources Found, Discuss Why: Most of the survey area has been previously surveyed with no cultural resources observed. The survey area is also heavily disturbed with above ground pipelines, graded roads, and portions of well pads intersecting on the southern boundary.

Management Summary

Summary: SWCA completed an intensive pedestrian survey for the Mewbourne SLWMS Red Baron Booster inadvertent pipeline release remediation project. SWCA surveyed a 100-foot survey area around the initial impacted area to account for remediation efforts and to sufficiently investigate the area for cultural resources, which resulted in a survey area of 5.55 acres (2.24 ha) on BLM CFO managed lands. No archaeological sites, historic properties, or isolated occurrences were observed during the current investigation.

No additional investigation or treatment is recommended regarding the current undertaking. If subsurface cultural materials are encountered during remediation, all work should cease, and the BLM CFO should be notified immediately.

In accordance with Section 106 of the National Historic Preservation Act (Public Law 89-665), as amended a cultural resources inventory was completed to locate, identify, and record any cultural resources that may be affected within the area of potential effects (APE) of the proposed project, and provide recommendations regarding their eligibility for the listing in the National Register of Historic Places (NRHP).

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155561

HPD Log No(s).

Attachments

Documents

Attachment Type	Description	Name	File Type	Upload Date	Upload By
Report/Manuscript	NIAF 155561	NMCRIS 155561	PDF document	20-May-2024	Adolfo Muniz

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 5 5 6 1

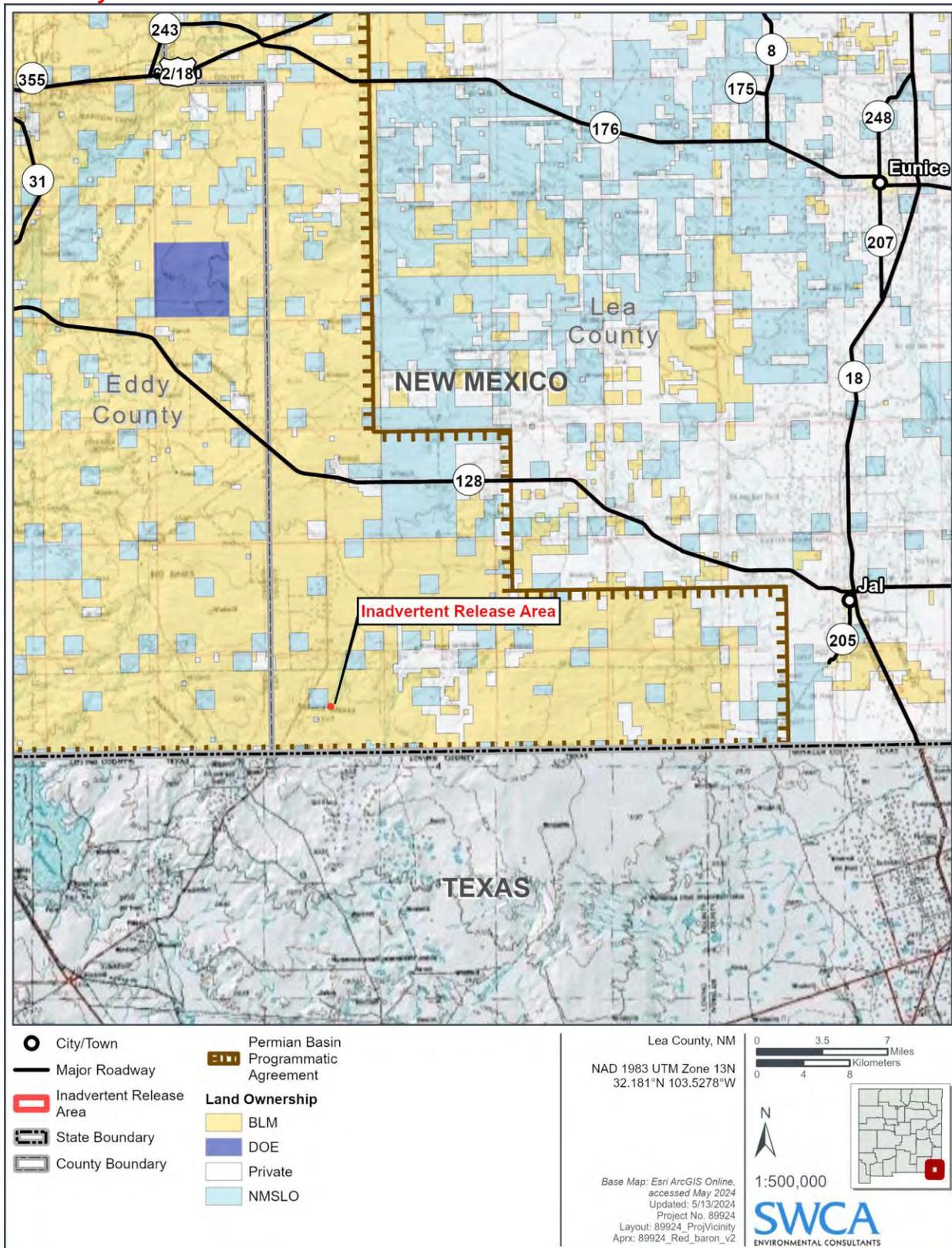


Figure 1. Project vicinity map.

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 5 5 6 1

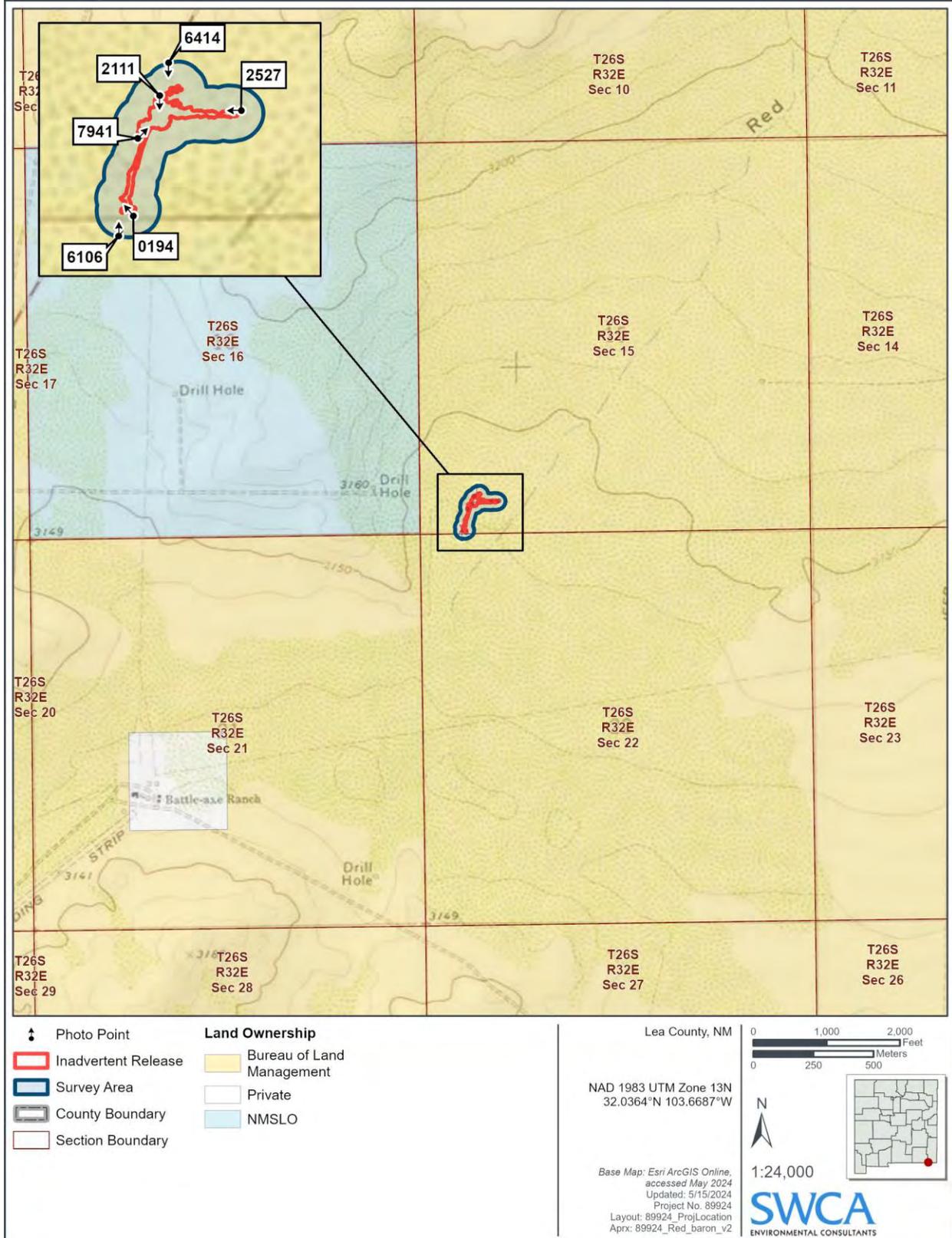


Figure 2. Project location map.

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 5 5 6 1



Figure 3. Overview of survey area, facing south (Frame 6414).



Figure 4. Overview of survey area, facing north (Frame 6106).

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 5 5 6 1



Figure 5. Overview showing release area in eastern portion of the survey area, facing west (Frame 2527).



Figure 6. Overview showing release area within the southern portion of the survey area, facing northwest (Frame 0194).

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 5 5 6 1



Figure 7. Overview showing release area within the center of the survey area, facing northeast (Frame 7941).

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 5 5 6 1

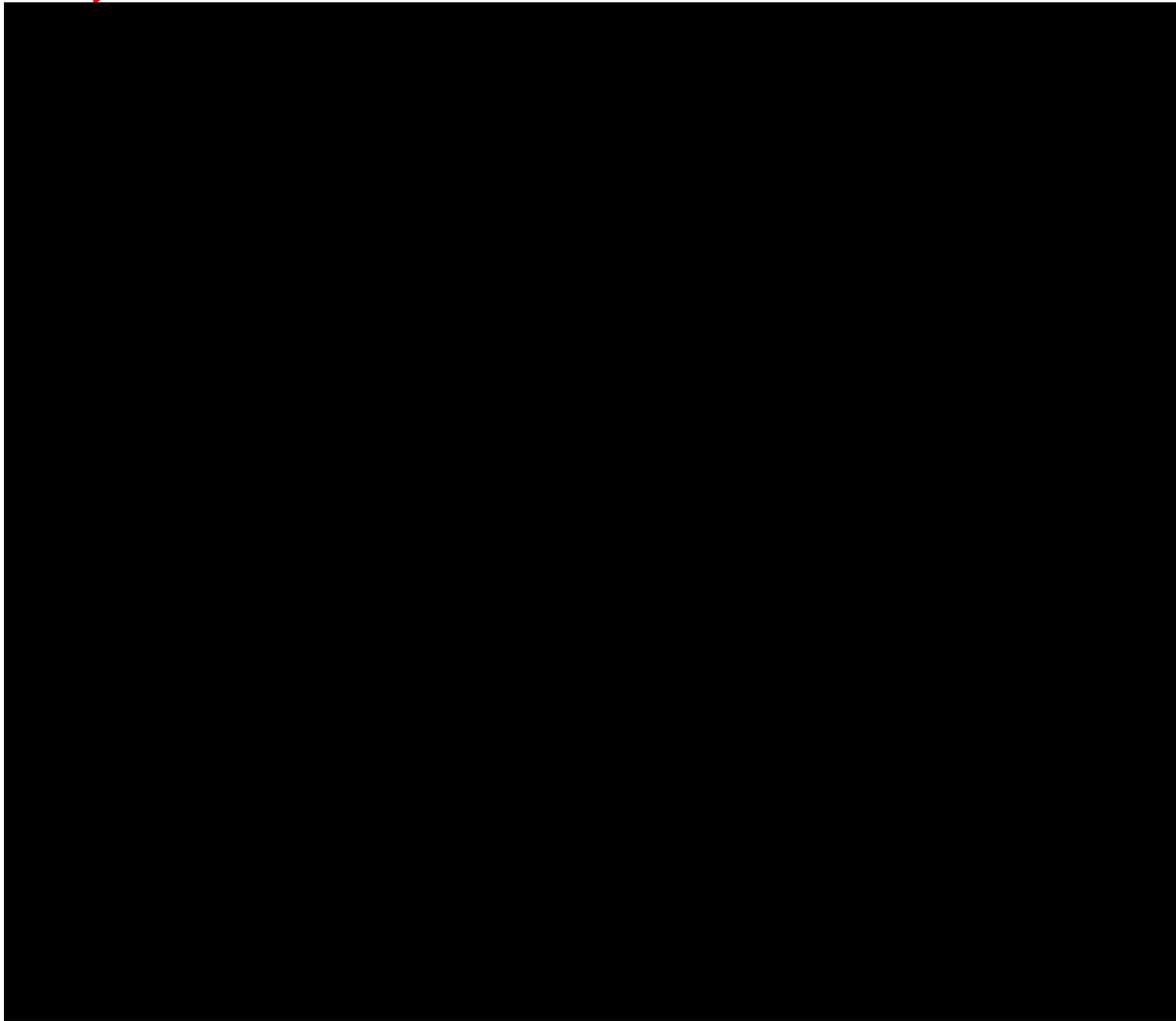


Figure 8. NMCRIS records search. The inadvertent release is marked by the blue polygon. The search buffer is represented by the green polygon. The brown and yellow polygons represent previous investigations. The red polygons represent previously recorded cultural resources.

Table 1. Project Photos of the Survey Area

Photo Frame	Site No.	Caption	Photo Type	Orientation
T13-6414	N/A	Overview of survey area.	Survey Area	Facing South
T13-6106	N/A	Overview of survey area.	Survey Area	Facing North
T13-2527	N/A	Overview showing release area in eastern portion of the survey area.	Survey Area	Facing West
T13-0194	N/A	Overview showing release area within the southern portion of the survey area.	Release Area	Facing Northwest

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 5 5 6 1

Photo Frame	Site No.	Caption	Photo Type	Orientation
T13-7941	N/A	Overview showing release area within the center of the survey area.		Facing Northeast
T13-2111	N/A	Overview of release area north section.		Facing South

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 5 5 6 1

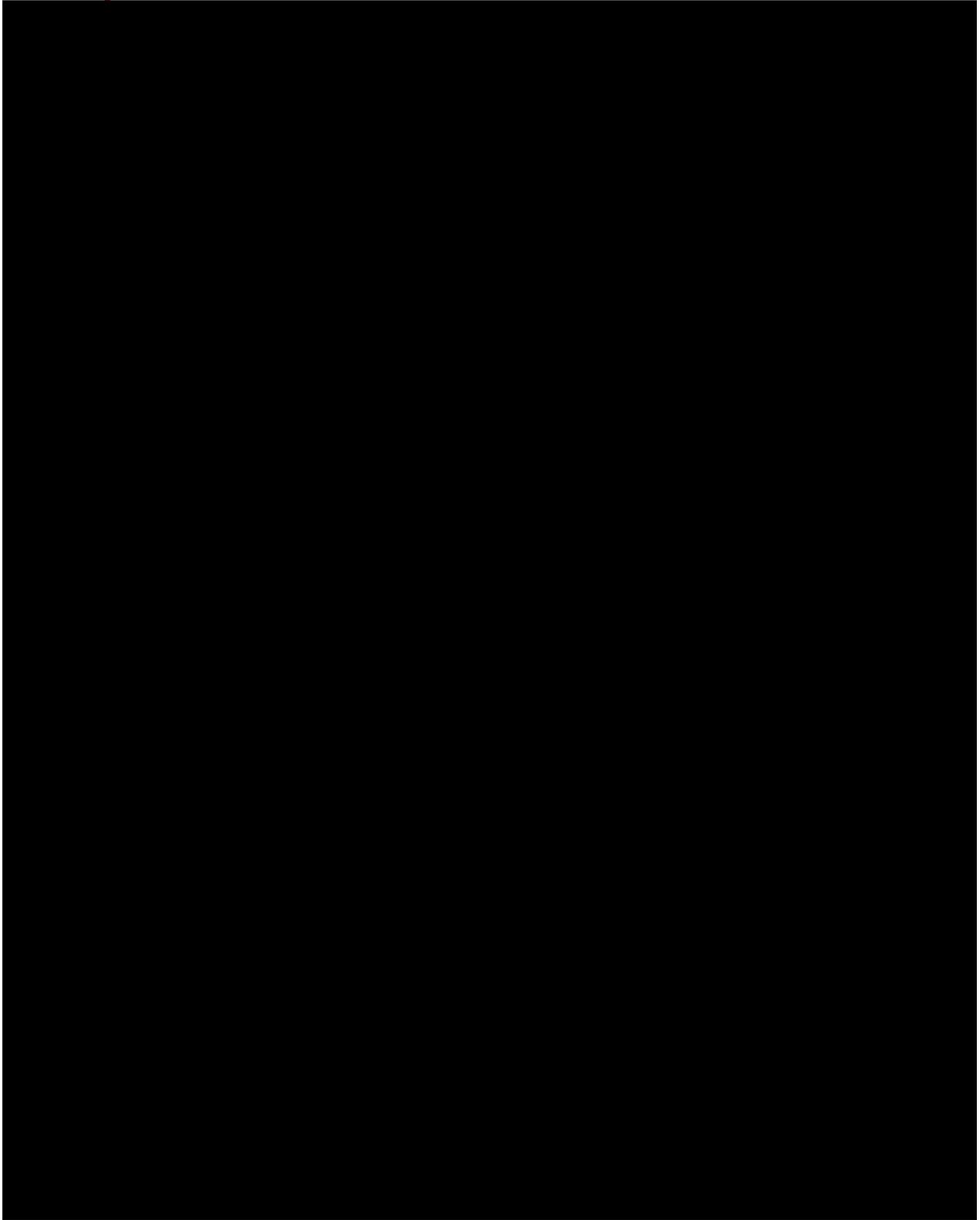


Figure 9. BLM Authorization Form

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 1625 N. French Dr., Hobbs, NM 88240
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Santa Fe, NM 87505

QUESTIONS

Action 368380

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 368380
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2414129527
Incident Name	NAPP2414129527 SLWMS RED BARON BOOSTER @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	SLWMS RED BARON BOOSTER
Date Release Discovered	05/03/2024
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 204 BBL Recovered: 65 BBL Lost: 139 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)	A 6" to 12" poly reducer/swedge developed a hole and failed. NMOCD Permitting site was down 5/17, C-141 was sent via email to Mike Bratcher and ocd.enviro@emrnd.nm.gov on 5/17.

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QUESTIONS, Page 2

Action 368380

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	368380
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	<i>Not answered.</i>

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: 05/20/2024
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QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 368380
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
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 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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 ½ and 1 (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 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 200 and 300 (ft.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	944
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	05/14/2024
On what date will (or did) the final sampling or liner inspection occur	06/11/2024
On what date will (or was) the remediation complete(d)	06/13/2024
What is the estimated surface area (in square feet) that will be reclaimed	21561
What is the estimated volume (in cubic yards) that will be reclaimed	1926
What is the estimated surface area (in square feet) that will be remediated	21561
What is the estimated volume (in cubic yards) that will be remediated	2300

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 368380

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 368380
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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
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: 07/30/2024
--	---

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 368380

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 368380
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 368380

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 368380
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	351599
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/11/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	300

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	21561
What was the total volume (cubic yards) remediated	2300
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	21561
What was the total volume (in cubic yards) reclaimed	1926
Summarize any additional remediation activities not included by answers (above)	Please see attached closure report for complete remediation activities.

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

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

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 07/30/2024
--	---

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QUESTIONS, Page 7

Action 368380

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 368380
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 368380

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 368380
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2414129527 SLWMS RED BARON BOOSTER, thank you. This Remediation Closure Report is approved.	8/23/2024