

Incident ID	nAPP2311157492
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>280</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2311157492
District RP	
Facility ID	
Application ID	

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

Printed Name: Connor Walker Title: Sr. Engineer

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

email: cwalker@mewbourne.com Telephone: (806)202-5281

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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District RP	
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## Closure

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

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

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

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

Printed Name: Connor Walker Title: Sr. Engineer

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

email: cwalker@mewbourne.com Telephone: (806)202-5281

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## Remediation Summary & Soil Closure Request

### Mewbourne Oil Company Greyhound Booster

Eddy County, New Mexico

Unit Letter "B", Section 8, Township 26 South, Range 31 East

Latitude 32.0626567° North, Longitude 103.7992237° West

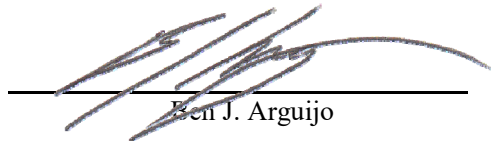
NMOCD Reference No. nAPP2311157492

Prepared By:

#### Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D

Lubbock, Texas 79413



Ben J. Arguijo



Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette



## TABLE OF CONTENTS

	<i>Section</i>
PROJECT INFORMATION.....	<b>1.0</b>
SITE CHARACTERIZATION.....	<b>2.0</b>
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE.....	<b>3.0</b>
REMEDIATION ACTIVITIES SUMMARY.....	<b>4.0</b>
RESTORATION, RECLAMATION & RE-VEGETATION PLAN.....	<b>5.0</b>
SOIL CLOSURE REQUEST.....	<b>6.0</b>
LIMITATIONS.....	<b>7.0</b>
DISTRIBUTION.....	<b>8.0</b>

### FIGURES

Figure 1 - Topographic Map  
Figure 2 - Site Characterization Map  
Figure 3 - Site & Sample Location Map

### TABLES

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

### APPENDICES

Appendix A - Depth to Groundwater Information  
Appendix B - Field Data  
Appendix C - Photographic Log  
Appendix D - Laboratory Analytical Reports  
Appendix E - Regulatory Correspondence

## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Greyhound Booster. Details of the release are summarized below:

## Location of Release Source

Latitude: 32.0626567° Longitude: -103.7992237°

Provided GPS are in WGS84 format.

Site Name:	Greyhound Booster	Site Type:	Pipeline
Date Release Discovered:	4/15/2023	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
"B"	8	26S	31E	Eddy

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

## Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)      Unknown	Volume Recovered (bbls)      690
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered
Cause of Release: The water seal on the centrifugal pump failed.		

## Initial Response

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

Previously submitted portions of the NMOCD Form C-141 are available in the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Greyhound Booster release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	280'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

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

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
280'	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)

† 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

On April 28, 2023, remediation activities commenced at the Greyhound Booster release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and 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 floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. 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 to a certified, commercial laboratory (henceforth, "the laboratory") for analysis.

On May 2, 2023, Etech collected six (6) confirmation soil samples (SW1D, FL 1 @ 3', FL 3 @ 2.5', FL 4 @ 3.5', FL 6 @ 3.5', and FL 11 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 208 mg/kg in soil sample SW1D to 848 mg/kg in soil sample FL 3 @ 2.5', which exceeded the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On May 8, 2023, based on laboratory analytical results and field screens, the excavation was further advanced in the areas characterized by soil samples SW1D, FL 1 @ 3', FL 3 @ 2.5', FL 4 @ 3.5', FL 6 @ 3.5', and FL 11 @ 3'. Etech collected 43 confirmation soil samples (NW 1 through NW 5, EW 1, EW 2, SW 1 through SW 4, WW 1 through WW 5, FL 1 @ 4.5', and FL 3 @ 3.5' through FL 28 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from 64.0 mg/kg in soil samples SW 4, FL 3 @ 3.5', FL 18 @ 1.5', and FL 24 @ 1.5' to 112 mg/kg in soil samples NW 2, NW 3, EW 2, WW 2, WW 3, and FL 7 @ 2.5'.

The final dimensions of the excavated area were approximately 225 feet in length, 4 to 65 feet in width, and 1.5 to 4.5 feet in depth. During the course of remediation activities, Etech transported approximately 612 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 612 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, "Site & 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 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

## 6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and 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 Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Greyhound Booster release site.

## 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 2  
811 S. First Street  
Artesia, NM 88210*

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

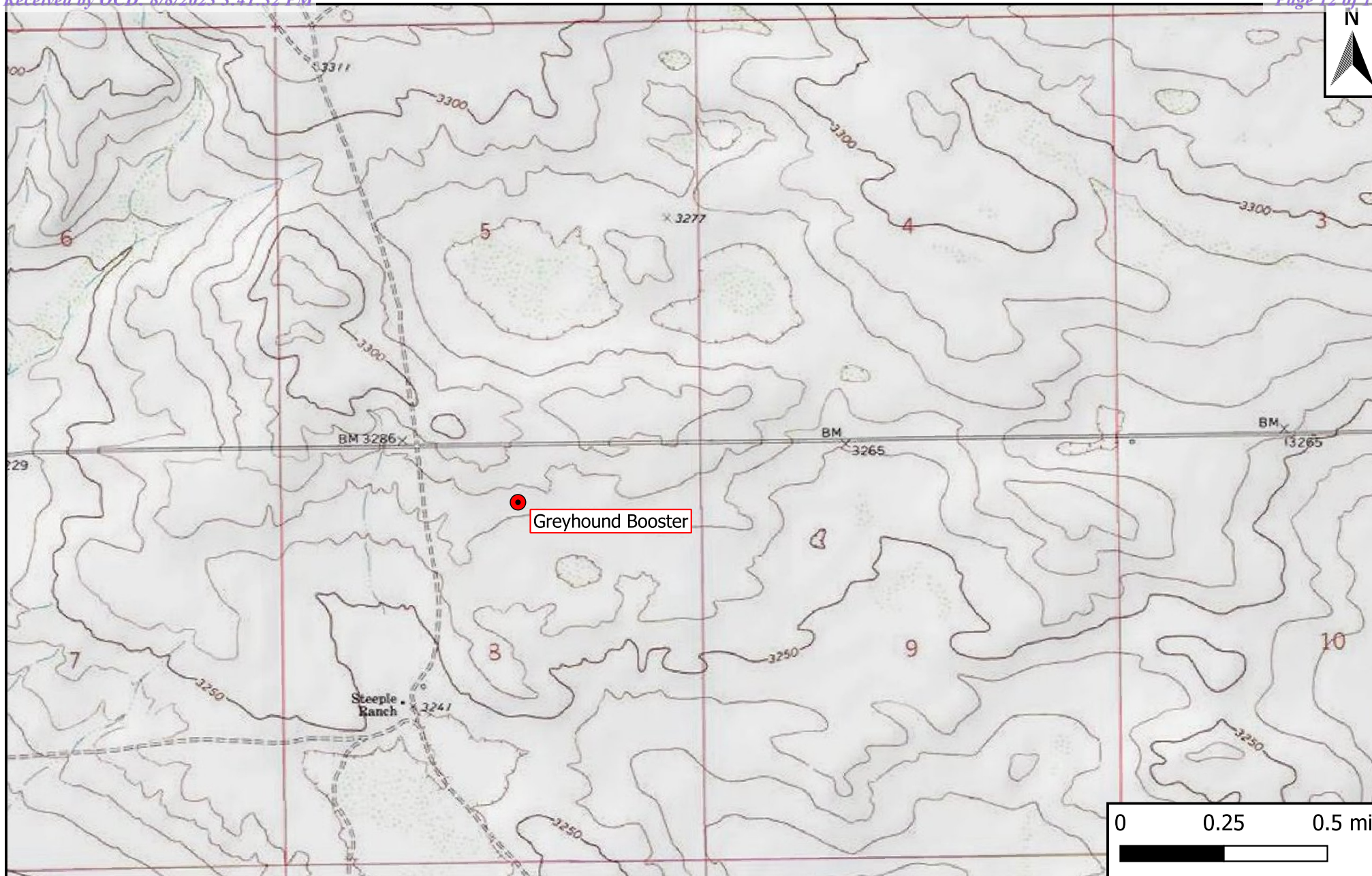
*Bureau of Land Management  
620 E. Greene Street  
Carlsbad, NM 88220*

*(Electronic Submission)*

## **Figure 1**

### **Topographic Map**





## Legend

- Site Location

## Figure 1

Topographic Map  
Mewbourne Oil Company  
Greyhound Booster  
GPS: 32.0626567, -103.7992237  
Eddy County



Drafted: bja

Checked: lc

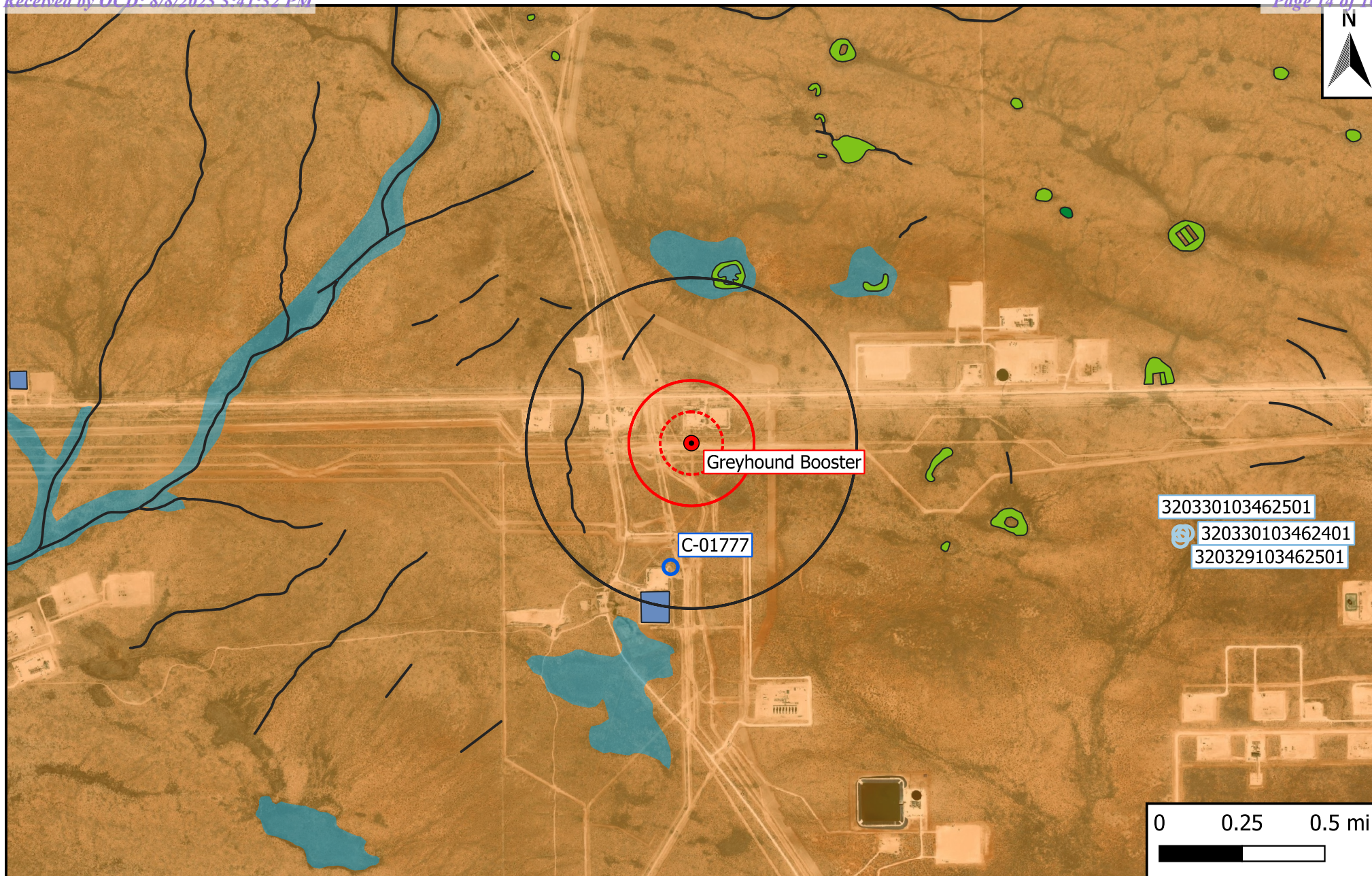
Date: 6/16/23



## **Figure 2**

### **Site Characterization Map**





## Legend

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

**Figure 2**  
 Site Characterization Map  
 Mewbourne Oil Company  
 Greyhound Booster  
 GPS: 32.0626567, -103.7992237  
 Eddy County



Drafted: bja

Checked: lc

Date: 6/16/23



## **Figure 3**

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



## Legend

- Excavation Extent
- Composite Floor Sample
- Composite Wall Sample

**Figure 3**  
 Site & Sample Location Map  
 Mewbourne Oil Company  
 Greyhound Booster  
 GPS: 32.0626567, -103.7992237  
 Eddy County



Drafted: bja

Checked: lc

Date: 7/12/23

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

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**Mewbourne Oil Company**  
**Greyhound Booster**  
**NMOCD Ref. #: nAPP2311157492**

NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
NW1	5/8/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW2	5/8/2023	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW3	5/8/2023	0-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW4	5/8/2023	0-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW5	5/8/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW1	5/8/2023	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW2	5/8/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW1D	5/2/2023	0-0.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW1	5/8/2023	0-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW2	5/8/2023	0-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW3	5/8/2023	0-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW4	5/8/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW1	5/8/2023	0-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW2	5/8/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW3	5/8/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW4	5/8/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW5	5/8/2023	0-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 1 @ 3'	5/2/2023	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL 1 @ 4.5'	5/8/2023	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 3 @ 2.5'	5/2/2023	2.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	848
FL 3 @ 3.5'	5/8/2023	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 4 @ 3.5'	5/2/2023	3.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 4 @ 4'	5/8/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 5 @ 4'	5/8/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 6 @ 3.5'	5/2/2023	3.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FL 6 @ 4'	5/8/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 7 @ 2.5'	5/8/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 8 @ 2'	5/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 9 @ 2'	5/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 10 @ 2'	5/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 11 @ 3'	5/2/2023	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 11 @ 3.5'	5/8/2023	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 12 @ 2'	5/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 13 @ 1.5'	5/8/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 14 @ 1.5'	5/8/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 15 @ 1.5'	5/8/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 16 @ 3.5'	5/8/2023	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 17 @ 1.5'	5/8/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 18 @ 1.5'	5/8/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 19 @ 1.5'	5/8/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 20 @ 1.5'	5/8/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 21 @ 3.5'	5/8/2023	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 22 @ 1.5'	5/8/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 23 @ 1.5'	5/8/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Mewbourne Oil Company</b> <b>Greyhound Booster</b> <b>NMOCD Ref. #: nAPP2311157492</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL 24 @ 1.5'	5/8/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 25 @ 2'	5/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 26 @ 2'	5/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 27 @ 2'	5/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 28 @ 2'	5/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

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

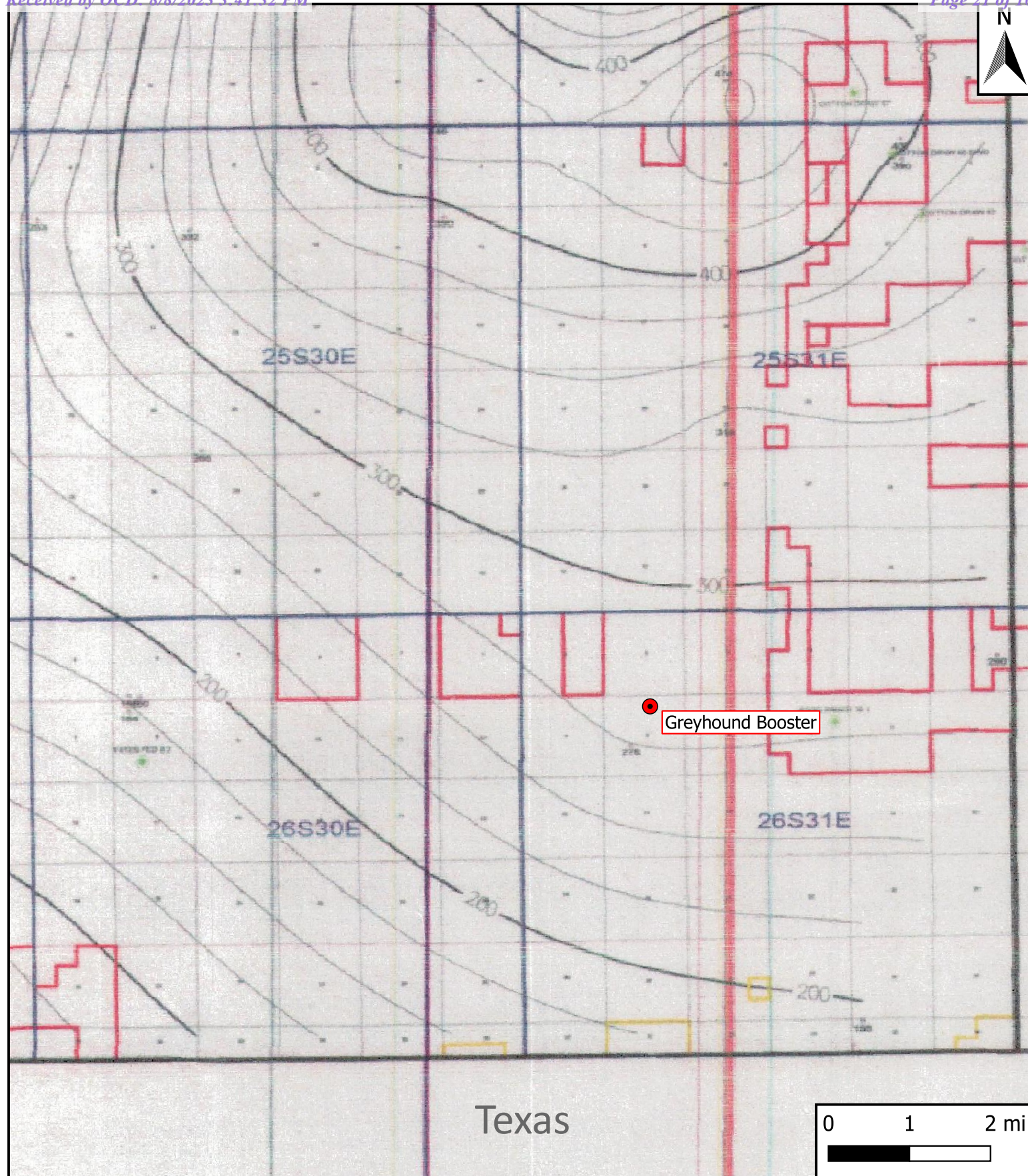
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

## **Appendix A**

### **Depth to Groundwater Information**





## Legend

- Site Location

**Figure 4**  
Inferred Depth to Groundwater Trend Map  
Mewbourne Oil Company  
Greyhound Booster  
GPS: 32.0626567, -103.7992237  
Eddy County



Drafted: bja

Checked: lc

Date: 6/16/2023



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C 01777</a>		C	ED				08	26S	31E	613245	3547409*	610	325	300	25
<a href="#">C 02248</a>		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	804	300	292	8
<a href="#">C 02249</a>		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	804	300	292	8
Average Depth to Water:														<b>294 feet</b>	
Minimum Depth:														<b>292 feet</b>	
Maximum Depth:														<b>300 feet</b>	

**Record Count:**3

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

**Easting (X):** 613346.19

**Northing (Y):** 3548011.3

**Radius:** 804.67

\*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.

7/12/23 3:33 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)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	01777				08	26S	31E	613245	3547409* 
Driller License: 208		Driller Company:		VAN NOY, W.L.					
Driller Name:		VAN NOY, W.L.							
Drill Start Date: 09/09/1977		Drill Finish Date:		09/16/1977		Plug Date:			
Log File Date: 09/28/1977		PCW Rcv Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 6.63		Depth Well:		325 feet		Depth Water: 300 feet			
Water Bearing Stratifications:		Top	Bottom	Description					
		300	325	Sandstone/Gravel/Conglomerate					
Casing Perforations:		Top	Bottom						
		295	325						

\*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)									
		(quarters are smallest to largest)									
		(NAD83 UTM in meters)									
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
C	02248	1	2	3	08	26S	31E	612942	3547316*		
Driller License:		Driller Company:									
Driller Name:		UNKNOWN									
Drill Start Date:		Drill Finish Date:		12/31/1946				Plug Date:			
Log File Date:		PCW Rcv Date:						Source:			
Pump Type:		Pipe Discharge Size:						Estimated Yield: 6 GPM			
Casing Size:		Depth Well:		300 feet				Depth Water:		292 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)									
		(quarters are smallest to largest)									
		(NAD83 UTM in meters)									
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
C	02249	1	2	3	08	26S	31E	612942	3547316*		
Driller License:		Driller Company:									
Driller Name:		UNKNOWN									
Drill Start Date:		Drill Finish Date:					12/31/1899		Plug Date:		
Log File Date:		PCW Rcv Date:					Source:				
Pump Type:		Pipe Discharge Size:					Estimated Yield: 6 GPM				
Casing Size:		Depth Well:					300 feet		Depth Water:		292 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.

7/12/23 3:35 PM

POINT OF DIVERSION SUMMARY





## Legend

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

**Figure 5**  
USGS Well Proximity Map  
Mewbourne Oil Company  
Greyhound Booster  
GPS: 32.0626567, -103.7992237  
Eddy County



Drafted: bja

Checked: lc

Date: 6/16/23





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Data Category:

Groundwater

Geographic Area:

United States

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### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 320329103462501

Minimum number of levels = 1

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

### USGS 320329103462501 26S.31E.08.321433

Eddy County, New Mexico

Latitude 32°03'29", Longitude 103°46'25" NAD27

Land-surface elevation 3,250 feet above NAVD88

The depth of the well is 326 feet below land surface.

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

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1949-03-10		D	72019	278.45			1	Z			A
1958-08-18		D	72019	274.76			1	Z			A

Explanation

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

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Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 320330103462401

Minimum number of levels = 1

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USGS 320330103462401 26S.31E.08.321434

Eddy County, New Mexico  
Latitude 32°03'30", Longitude 103°46'24" NAD27  
Land-surface elevation 3,251 feet above NAVD88  
The depth of the well is 380 feet below land surface.  
This well is completed in the Pecos River alluvial aquifer (N100PCSRVR) national aquifer.  
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1983-02-16		D	72019	276.58			1	Z			A
1987-10-21		D	72019	277.22			1	Z			A
1992-11-05		D	72019	275.96			P	O			A
1998-01-29		D	72019	275.49			1	S			A

Explanation

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

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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320330103462501

Minimum number of levels = 1  
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USGS 320330103462501 26S.31E.08.32143

Eddy County, New Mexico  
Latitude 32°03'30", Longitude 103°46'25" NAD27  
Land-surface elevation 3,252 feet above NAVD88  
The depth of the well is 338 feet below land surface.  
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.  
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1959-02-18		D	72019	287.10			P	Z			A

Explanation

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

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## **Appendix B**

### **Field Data**



600 ppm Cl<sup>-</sup>  
Target

## Sample Log

Date:

5/2/23

Project: Greyhound Booster

Project Number: 18089

Latitude: 32.062574

Longitude: -103.799039

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1 @ 2'	?	6.4 1500	
SW1 (1/2)	?	5.6 1136	
FL1 @ 3'	—	4.4 716	★ sent
SW1b (1/2)	—	4.4 716	
FL1 @ 3.5'	—	4.4 844	
SW1c (1/2)	—	<del>4.4</del> 4.0 604	
FL1 @ 4'	—	4.6 780	
FL3 @ 2'	?	5.2 984	
FL2 @ 2.5' <del>AWB</del>	—	3.4 552	★ sent
FL3 @ 3'	—	5.6 1136	
SW1b (1/2)	—	<del>3.4</del> 4.0 604	5/3/23
SW1c	—	5.2 984	✓
NW1	?	8.6 5.0 3992	
NW2	?	9.4 6.6 7432	
NW3	?	9.2 6.2 6376	
NW1 (1/2)	?	7.2 1968	
SW1d	—	4.2 660	★
FL4 @ 3.5'	—	4.4 716	★
FL5 @ 3.5'	—	4.8 844	
FL6 @ 3.5'	—	4.6 780	★ ?
NW1b (1/2)	—	6.4 1500	
FL7 @ 2'	—	5.6 1136	
FL8 @ 2'	—	8.2 4.2 2864	
FL9 @ 1.5'	—	8.4 4.4 3120	
FL10 @ 1.5'	—	6.0 1308	
FL11 @ 3'	—	4.6 780	★ ?
FL12 @ 1.5'	—	7.4 2112	
FL13 @ 1'	—	7.6 2272	
FL14 @ 1'	—	8.4 4.6 3392	
FL15 @ 1'	—	6.0 1308	
— 5/4 —	—	5/4/23 —	— 5/4 —
FL16 @ 3'	—	5.0 912	
FL17 @ 1'	—	8.4 4.8 3680	
FL18 @ 1'	—	8.0 4.0 2628	
FL19 @ 1'	—	8.8 5.0 3992	
FL20 @ 1'	—	5.8 1220	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

Resamples = SP #1 @ Sb 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:

5/4/23

Project: Greyhound Booster

Project Number: 18089

Latitude: 32.062574

Longitude: -103.799039

Sample ID	PID/Odor	Chloride Conc.	GPS
NW 1b (Full)	—	6.0 1309	
FL 21 @ 3'	—	5.2 984	
FL 22 @ 1'	—	7.2 1968	
FL 23 @ 1'	—	7.2 1968	
FL 24 @ 1'	—	7.8 2444	
SW 2	—	5.2 984	
EW 1	—	8.6 4.6 3392	
— 5/5 —	—	— 5/5/23 —	5/5/23
TT - BG	—	1388	
TT1 @ 2-2.5'	—	1388	
TT2 @ 2-2.5'	—	976	
FL 1 @ 4.5'	2.8	328	
FL 3 @ 3.5'	3.0	368	
FL 4 @ 4'	3.2	408	
FL 5 @ 4'	2.6	292	
FL 8 @ 2.5'	2.6	292	
FL 9 @ 2'	2.6	292	
FL 10 @ 2'	3.4	452	
WW 1	3.4	452	
WW 2	2.2	452	
WW 3	3.0	368	
WW 4	3.6	500	
NW 1	3.6	500	
NW 4	2.4	260	
WW 5	2.6	292	
SW 1	2.4	260	
FL 7 @ 2.5'	3.0	368	
FL 6 @ 4'	3.0	368	
FL 11 @ 3.5'	3.0	368	
FL 12 @ 2'	2.6	292	
FL 13 @ 1.5'	2.4	260	
FL 14 @ 1.5'	2.8	228	
FL 15 @ 1.5'	3.6	500	
NW 2	2.8	328	
NW 3	2.8	328	
FL 16 @ 3.5'	3.6	500	

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: 5. 8. 23

Project: Grayhound Booster  
Project Number: 18089

Latitude:

Longitude:

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



## **Appendix C**

### **Photographic Log**

## Photographic Log

<b>Photo Number:</b> 1	 <p>4/15/2023 at 8:40:19 PM 32.062628,-103.799072</p>
<b>Photo Direction:</b> Overhead/Bird's Eye	
<b>Photo Description:</b>  Aerial view of the affected area.	

<b>Photo Number:</b> 2	 <p>May 5, 2023 at 1:01:33 PM +32.062578,-103.799031 ±5.00m 296° NW</p>
<b>Photo Direction:</b> West-Northwest	
<b>Photo Description:</b>  View of the excavated area.	



## Photographic Log


<b>Photo Number:</b> 3	<div>May 5, 2023 at 1:02:02 PM +32.062565,-103.798946 ±5.00m 285° W</div> 
<b>Photo Direction:</b> West-Northwest	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 4	<div>May 5, 2023 at 1:02:25 PM +32.062749,-103.798881 ±5.00m 256° W</div> 
<b>Photo Direction:</b> West-Southwest	
<b>Photo Description:</b>  View of the excavated area.	



## Photographic Log


<b>Photo Number:</b> 5	 <p>May 16, 2023 at 10:03:09 AM</p> <p>32.062619,-103.798874</p>
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the excavated area during backfill.	

<b>Photo Number:</b> 6	 <p>May 16, 2023 at 10:04:18 AM Carlsbad NM 88220 United States</p> <p>32.062535,-103.799264</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the excavated area during backfill.	



## Photographic Log

<b>Photo Number:</b> 7	 <p>May 22, 2023 at 9:46:18 AM Carlsbad NM 88220 United States</p> <p>32.062542, -103.799362</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the remediated area following backfill and regrading.	

<b>Photo Number:</b> 8	 <p>May 22, 2023 at 11:00:09 AM Carlsbad NM 88220 United States</p> <p>32.062560, -103.798604</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the remediated area following backfill and regrading.	



## **Appendix D**

### **Laboratory Analytical Reports**



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

---

May 09, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: GREYHOUND BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 05/04/23 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 1 @ 3' (H232220-01)**

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	05/06/2023	ND	1.94	97.2	2.00	4.91	
Toluene*	<0.050	0.050	05/06/2023	ND	2.01	101	2.00	3.14	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	1.94	97.2	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.09	101	6.00	2.10	
Total BTEx	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	05/05/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	169	84.7	200	3.20	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	166	83.0	200	0.997	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 3 @ 2.5' (H232220-02)**

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	05/06/2023	ND	1.94	97.2	2.00	4.91		
Toluene*	<0.050	0.050	05/06/2023	ND	2.01	101	2.00	3.14		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	1.94	97.2	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.09	101	6.00	2.10		
Total BTEx	<0.300	0.300	05/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	848	16.0	05/05/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	178	88.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	90.2	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 4 @ 3.5' (H232220-03)**

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	05/06/2023	ND	1.94	97.2	2.00	4.91	
Toluene*	<0.050	0.050	05/06/2023	ND	2.01	101	2.00	3.14	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	1.94	97.2	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.09	101	6.00	2.10	
Total BTEx	<0.300	0.300	05/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	320	16.0	05/05/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	178	88.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	90.2	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 6 @ 3.5' (H232220-04)**

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	05/06/2023	ND	1.94	97.2	2.00	4.91		
Toluene*	<0.050	0.050	05/06/2023	ND	2.01	101	2.00	3.14		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	1.94	97.2	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.09	101	6.00	2.10		
Total BTEX	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	05/05/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	178	88.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	90.2	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 11 @ 3' (H232220-05)**

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	05/06/2023	ND	1.94	97.2	2.00	4.91		
Toluene*	<0.050	0.050	05/06/2023	ND	2.01	101	2.00	3.14		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	1.94	97.2	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.09	101	6.00	2.10		
Total BTEx	<0.300	0.300	05/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	528	16.0	05/05/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	178	88.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	90.2	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 1 D (H232220-06)**

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	05/06/2023	ND	1.94	97.2	2.00	4.91		
Toluene*	<0.050	0.050	05/06/2023	ND	2.01	101	2.00	3.14		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	1.94	97.2	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.09	101	6.00	2.10		
Total BTEX	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/05/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	178	88.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	90.2	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 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

A-01	Ending CCV failed high. No target compounds detected in samples.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## ARDINAL LABORATORIES

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

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Page 9 of 9

[illegible]

FORM-006  
Revision 1.0

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





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

---

May 11, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: GREYHOUND BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 05/09/23 10:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/09/2023	Sampling Date:	05/08/2023
Reported:	05/11/2023	Sampling Type:	Soil
Project Name:	GREYHOUND BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	18089	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE- RURAL EDDY CO, NM		

**Sample ID: FL 1 @ 4.5' (H232284-01)**

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	05/09/2023	ND	2.03	102	2.00	12.5		
Toluene*	<0.050	0.050	05/09/2023	ND	2.09	105	2.00	11.6		
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	2.16	108	2.00	11.4		
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.40	107	6.00	10.9		
Total BTEX	<0.300	0.300	05/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	05/10/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 53.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.0 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 3 @ 3.5' (H232284-02)**

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	05/09/2023	ND	2.03	102	2.00	12.5	
Toluene*	<0.050	0.050	05/09/2023	ND	2.09	105	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	2.16	108	2.00	11.4	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.40	107	6.00	10.9	
Total BTEX	<0.300	0.300	05/09/2023	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	64.0	16.0	05/10/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 4 @ 4' (H232284-03)**

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	05/09/2023	ND	2.03	102	2.00	12.5		
Toluene*	<0.050	0.050	05/09/2023	ND	2.09	105	2.00	11.6		
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	2.16	108	2.00	11.4		
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.40	107	6.00	10.9		
Total BTEx	<0.300	0.300	05/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	80.0	16.0	05/10/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 71.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 5 @ 4' (H232284-04)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62		
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00		
Total BTEX	<0.300	0.300	05/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 52.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 54.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 6 @ 4' (H232284-05)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62		
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00		
Total BTEx	<0.300	0.300	05/10/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 53.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.5 % 49.1-148

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 7 @ 2.5' (H232284-06)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62	
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/10/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

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 LANCE CRENSHAW  
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 HOBBS NM, 88240  
 Fax To:

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 8 @ 2' (H232284-07)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62		
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	80.0	16.0	05/10/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 9 @ 2' (H232284-08)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62		
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	80.0	16.0	05/10/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 10 @ 2' (H232284-09)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62		
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	80.0	16.0	05/10/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 11 @ 3.5' (H232284-10)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62	
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 12 @ 2' (H232284-11)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62		
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00		
Total BTEX	<0.300	0.300	05/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 13 @ 1.5' (H232284-12)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62	
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2023	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	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 14 @ 1.5' (H232284-13)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62		
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00		
Total BTEX	<0.300	0.300	05/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 15 @ 1.5' (H232284-14)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62	
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 16 @ 3.5' (H232284-15)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62		
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 17 @ 1.5' (H232284-16)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62		
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	80.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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**Analytical Results For:**

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

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 18 @ 1.5' (H232284-17)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62	
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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**Analytical Results For:**

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

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 19 @ 1.5' (H232284-18)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62		
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00		
Total BTEx	<0.300	0.300	05/10/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 20 @ 1.5' (H232284-19)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62	
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00	
Total BTEx	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 21 @ 3.5' (H232284-20)**

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	05/10/2023	ND	1.94	96.8	2.00	2.62		
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00		
Total BTEx	<0.300	0.300	05/10/2023	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	80.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 22 @ 1.5' (H232284-21)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.94	96.8	2.00	2.62	
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00	
Total BTEx	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 23 @ 1.5' (H232284-22)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.94	96.8	2.00	2.62	
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00	
Total BTEX	<0.300	0.300	05/10/2023	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	80.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 24 @ 1.5' (H232284-23)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	1.94	96.8	2.00	2.62		
Toluene*	<0.050	0.050	05/10/2023	ND	1.97	98.4	2.00	4.64		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	6.25		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.27	104	6.00	7.00		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	64.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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**Analytical Results For:**

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

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 25 @ 2' (H232284-24)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543		
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	80.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 26 @ 2' (H232284-25)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543	
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10	
Total BTEx	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	80.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 27 @ 2' (H232284-26)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543		
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10		
Total BTEX	<0.300	0.300	05/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 28 @ 2' (H232284-27)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543		
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	80.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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 2617 W MARLAND  
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Received: 05/09/2023  
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 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 1 (H232284-28)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543	
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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Received: 05/09/2023  
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 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 2 (H232284-29)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543		
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	80.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 3 (H232284-30)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543		
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	80.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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 HOBBS NM, 88240  
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Received: 05/09/2023  
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 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 4 (H232284-31)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543		
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	64.0	16.0	05/10/2023	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	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 1 (H232284-32)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543		
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10		
Total BTEx	<0.300	0.300	05/10/2023	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	96.0	16.0	05/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	180	89.9	200	4.57	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	176	87.9	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 2 (H232284-33)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543		
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	112	16.0	05/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 1 (H232284-34)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543	
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 2 (H232284-35)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543		
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10		
Total BTEX	<0.300	0.300	05/10/2023	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	112	16.0	05/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 3 (H232284-36)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543	
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10	
Total BTEX	<0.300	0.300	05/10/2023	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	112	16.0	05/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 4 (H232284-37)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543	
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 5 (H232284-38)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543	
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 1 (H232284-39)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543		
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10		
Total BTEx	<0.300	0.300	05/10/2023	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	80.0	16.0	05/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 2 (H232284-40)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543		
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	112	16.0	05/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 3 (H232284-41)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543		
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	112	16.0	05/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 4 (H232284-42)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543	
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 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: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: GREYHOUND BOOSTER  
 Project Number: 18089  
 Project Location: MEWBOURNE- RURAL EDDY CO, NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 5 (H232284-43)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	2.06	103	2.00	0.543	
Toluene*	<0.050	0.050	05/10/2023	ND	2.08	104	2.00	3.04	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.17	108	2.00	3.33	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.49	108	6.00	2.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	96.0	16.0	05/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

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

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																									
Project Manager: Lane Cranshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8016M)</div> <div>BTEX (8021B)</div> </div>																									
Address: 2617 W Marland				Company: Mawbourn																													
City: Hobbs State: NM Zip: 88240				Attn: Jeff Brown																													
Phone #: (575) 264-9884 Fax #:				Address: 4801 Bvd P Blvd																													
Project #: 18089 Project Owner: Mawbourn				City: Hobbs																													
Project Name: Grayhound Booster				State: NM Zip: 88240																													
Project Location: Rural Eddy				Phone #:																													
Sampler Name: Dominic Casarez				Fax #:																													
FOR LAB USE ONLY																																	
Lab I.D.		Sample I.D.		MATRIX		PRESERV														SAMPLING													
H232284																																	
DC 1 FL 1 @ 4.5		C 1		✓		✓		58		✓																							
2 FL 3 @ 3.5																																	
3 FL 4 @ 4																																	
4 FL 5 @ 4																																	
5 FL 6 @ 4																																	
6 FL 7 @ 2.5																																	
7 FL 8 @ 2																																	
8 FL 9 @ 2																																	
9 FL 10 @ 2																																	
10 FL 11 @ 3.5																																	
<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 90 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																	
Relinquished By: [Signature]				Date: 5-9-23				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																	
				Time: 1055								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																	
Relinquished By:				Date:				Received By:				REMARKS:																					
				Time:																													
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.																					
Sampler - UPS - Bus - Other: 1.4c / 1.0c #113				Cool / Intact				(Initials)																									
				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																									



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																													
<b>Project Manager:</b> <u>Lane Crenshaw</u>				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX (8021B)</div> </div>																													
<b>Address:</b> P.O. Box 301				<b>Company:</b> <u>Newbourn</u>																																	
<b>City:</b> Lovington		<b>State:</b> NM		<b>Zip:</b> 88260		<b>Attn:</b> <u>Jeff Broom</u>																															
<b>Phone #:</b> (575) 396-2378		<b>Fax #:</b> (575) 396-1429		<b>Address:</b> <u>4801 B-s &amp; Blvd</u>																																	
<b>Project #:</b> <u>18089</u>		<b>Project Owner:</b> <u>Newbourn</u>		<b>City:</b> <u>Hobbs</u>																																	
<b>Project Name:</b> <u>Grayhound Booster</u>				<b>State:</b> <u>NM</u>																<b>Zip:</b>																	
<b>Project Location:</b> <u>Rural Eddy</u>				<b>Phone #:</b> <u>88240</u>																																	
<b>Sampler Name:</b> <u>Dominic Casarez</u>				<b>Fax #:</b>																																	
FOR LAB USE ONLY																																					
<b>Lab I.D.</b> <u>H232284</u>		<b>Sample I.D.</b>		<b>GRAB OR (C)OMP.</b> <u>1</u>		<b># CONTAINERS</b> <u>1</u>		<b>MATRIX</b>				<b>PRESERV.</b>		<b>SAMPLING</b>		<b>DATE</b>		<b>TIME</b>																			
								<b>GROUNDWATER</b>				<b>WASTEWATER</b>		<b>SOIL</b>		<b>SLUDGE</b>		<b>OTHER :</b>		<b>ACID/BASE:</b>		<b>ICE / COOL</b>		<b>OTHER :</b>													
								<b>DATE</b>				<b>TIME</b>		<b>DATE</b>		<b>TIME</b>		<b>DATE</b>		<b>TIME</b>																	
								<b>DATE</b>				<b>TIME</b>		<b>DATE</b>		<b>TIME</b>		<b>DATE</b>		<b>TIME</b>																	
								<b>DATE</b>				<b>TIME</b>		<b>DATE</b>		<b>TIME</b>		<b>DATE</b>		<b>TIME</b>																	
								<b>DATE</b>				<b>TIME</b>		<b>DATE</b>		<b>TIME</b>		<b>DATE</b>		<b>TIME</b>																	
								<b>DATE</b>				<b>TIME</b>		<b>DATE</b>		<b>TIME</b>		<b>DATE</b>		<b>TIME</b>																	
								<b>DATE</b>				<b>TIME</b>		<b>DATE</b>		<b>TIME</b>		<b>DATE</b>		<b>TIME</b>																	
								<b>DATE</b>				<b>TIME</b>		<b>DATE</b>		<b>TIME</b>		<b>DATE</b>		<b>TIME</b>																	
								<b>DATE</b>				<b>TIME</b>		<b>DATE</b>		<b>TIME</b>		<b>DATE</b>		<b>TIME</b>																	
								<b>DATE</b>				<b>TIME</b>		<b>DATE</b>		<b>TIME</b>		<b>DATE</b>		<b>TIME</b>																	
								<b>DATE</b>				<b>TIME</b>		<b>DATE</b>		<b>TIME</b>		<b>DATE</b>		<b>TIME</b>																	
								<b>DATE</b>				<b>TIME</b>		<b>DATE</b>		<b>TIME</b>		<b>DATE</b>		<b>TIME</b>																	
								<b>DATE</b>				<b>TIME</b>		<b>DATE</b>		<b>TIME</b>		<b>DATE</b>		<b>TIME</b>																	
								<b>DATE</b>				<b>TIME</b>		<b>DATE</b>		<b>TIME</b>		<b>DATE</b>		<b>TIME</b>																	



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

<b>Company Name:</b> Etch Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
<b>Project Manager:</b> <i>Lanc Crenshaw</i>				<b>P.O. #:</b>				<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>													
<b>Address:</b> P.O. Box 301				<b>Company:</b> <i>Mawbourn</i>																	
<b>City:</b> Lovington		<b>State:</b> NM		<b>Zip:</b> 88260		<b>Attn:</b> <i>Jeff Breen</i>															
<b>Phone #:</b> (575) 396-2378		<b>Fax #:</b> (575) 396-1429		<b>Address:</b> <i>4801 Bus p Blvd</i>																	
<b>Project #:</b> <i>18089</i>		<b>Project Owner:</b> <i>Mawbourn</i>		<b>City:</b> <i>Hobbs</i>																	
<b>Project Name:</b> <i>Grayhound Booster</i>				<b>State:</b> <i>NM</i> <b>Zip:</b>																	
<b>Project Location:</b> <i>Rural Eddy</i>				<b>Phone #:</b> <i>88240</i>																	
<b>Sampler Name:</b> <i>Dominic Casarez</i>				<b>Fax #:</b>																	

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)						
					GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE ICE / COOL OTHER:												
	<i>4232284</i>																	
	<i>DC 21</i>	<i>FL 22 @ 1.5</i>	<i>C</i>	<i>1</i>				<i>5-9</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>						
	<i>22</i>	<i>FL 23 @ 1.5</i>																
	<i>23</i>	<i>FL 24 @ 1.5</i>																
	<i>24</i>	<i>FL 25 @ 2</i>																
	<i>25</i>	<i>FL 26 @ 2</i>																
	<i>26</i>	<i>FL 27 @ 2</i>																
	<i>27</i>	<i>FL 28 @ 2</i>																
	<i>28</i>	<i>SW 1</i>																
	<i>29</i>	<i>SW 2</i>																
	<i>30</i>	<i>SW 3</i>																

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<b>Relinquished By:</b> <i>[Signature]</i>	<b>Date:</b> <i>5-9-23</i>	<b>Received By:</b> <i>[Signature]</i>	<b>Date:</b> <i>1055</i>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Add'l Phone #:</b>
<b>Relinquished By:</b>	<b>Date:</b>	<b>Received By:</b>	<b>Date:</b>	<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Add'l Fax #:</b>
				<b>REMARKS:</b>	
<b>Delivered By: (Circle One)</b> <b>Sampler - UPS - Bus - Other:</b> <i>1.6c / 1.0c</i>				<b>CHECKED BY:</b> (Initials) <i>yo</i>	

Please email results to [pm@etchenv.com](mailto:pm@etchenv.com).

FORM-006  
Revision 1.0

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																			
Project Manager: <u>Lane Crenshaw</u>				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: P.O. Box 301				Company: <u>Mewborn</u>																																							
City: Lovington State: NM Zip: 88260				Attn: <u>Jeff Brown</u>																																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: <u>4801 Bus p Blvd</u>																																							
Project #: <u>18089</u> Project Owner: <u>Mewborn</u>				City: <u>Hobbs</u>																																							
Project Name: <u>Grayhound Booster</u>				State: <u>NM</u> Zip: <u>88240</u>																																							
Project Location: <u>Aural Eddy</u>				Phone #:																																							
Sampler Name: <u>Dominic Casarez</u>				Fax #:																																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																																	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME															
<u>H232284</u>				C		1						✓										✓				✓		✓		✓													
<u>DC 31</u>		<u>SW4</u>		C		1						✓												✓				✓		✓													
<u>32</u>		<u>EW1</u>		C		1						✓												✓				✓		✓													
<u>33</u>		<u>EW2</u>		C		1						✓												✓				✓		✓													
<u>34</u>		<u>WW1</u>		C		1						✓												✓				✓		✓													
<u>35</u>		<u>WW2</u>		C		1						✓												✓				✓		✓													
<u>36</u>		<u>WW3</u>		C		1						✓												✓				✓		✓													
<u>37</u>		<u>WW4</u>		C		1						✓												✓				✓		✓													
<u>38</u>		<u>WWS</u>		C		1						✓												✓				✓		✓													
<u>39</u>		<u>NW1</u>		C		1						✓												✓				✓		✓													
<u>40</u>		<u>NW2</u>		C		1						✓												✓				✓		✓													
<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 this analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																																											
Relinquished By: <u>[Signature]</u>				Date: <u>5-9-23</u>				Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																											
				Time: <u>1055</u>								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																											
Relinquished By:				Date:				Received By:				REMARKS:																															
				Time:																																							
Delivered By: (Circle One)				#113				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.																											
Sampler - UPS - Bus - Other:				1.6 c / 1.0 c				Cool Intact				(Initials)																															
								<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<u>[Signature]</u>																															

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 50 of 50

[illegible]



## **Appendix E**

### **Regulatory Correspondence**

**From:** [Lance Crenshaw](#)  
**To:** [Enviro, OCD, EMNRD](#)  
**Cc:** [Ben Arquijo](#); [Connor Walker](#); [Joel Lowry](#)  
**Subject:** Sampling Notification  
**Date:** Monday, May 8, 2023 11:03:47 AM

---

This email serves as notice that Etech intends to collect excavation confirmation soil samples on May 12-15 from the following locations/reportable release sites:

Mewbourne Oil Co –Antelope 9 B2NC State Com #001H- nAPP2311029101

Mewbourne Oil Co- CWMS Fleetwood Riser- napp2308026482

Mewbourne Oil Co- Malaga 30 MP Battery Fire – napp2305942242

Mewbourne Oil Co – Greyhound Booster – napp2311157492

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email [lance@etechenv.com](mailto:lance@etechenv.com).

**Lance Crenshaw**  
**Etech Environmental & Safety Solutions**  
**575-631-2532**

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

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

CONDITIONS  
  
Action 249805

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 249805
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2311157492 GREYHOUND BOOSTER, thank you. This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	1/18/2024